

# S204M-C20UC



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

## General Information

<b>Extended Product Type:</b>	S204M-C20UC
<b>Product ID:</b>	2CDS274061R0204
<b>EAN:</b>	4013614437465
<b>Catalog Description:</b>	Miniature Circuit Breaker - S200MUC - 4P - C
<b>Long Description:</b>	The miniature circuit breaker S 200 M UC extends the established ABB System pro M compact® product range with an MCB for DC and AC applications. The S 200 M UC impresses with its performance range and the accordingly large amount of approvals. Its high inbuilt short circuit breaking capacity across the entire model line, its flexible AC and DC application and its approval and compliance in accordance with all major international and local standards make it truly unique. All current System pro M compact® accessories can be combined easily with the new model line. Whether warehousing or project engineering, planning, installing or maintaining your equipment, the S 200 M UC is a simple and flexible solution.

## Additional Information

<b>ABB Industry Usage Level 2:</b>	TRA.2 - Railway
<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>	2CDC002142D0207
<b>Declaration of Conformity - CE:</b>	2CDK400583D2702
<b>Degree of Protection:</b>	IP20
<b>Dielectric Test Voltage:</b>	50 / 60 Hz, 1 min: 2 kV
<b>EAN:</b>	4013614437465
<b>EPLAN Catalog Tree:</b>	Electrical engineering / Protection devices / General
<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>	2CDK400030D201
<b>Housing Material:</b>	Insulation Group I, RAL 7035
<b>Installation Size:</b>	acc. to DIN 43880 1
<b>Instructions and Manuals:</b>	2CDC002142D0207
<b>Interrupting Rating acc. to UL1077:</b>	(220 V AC) 10 kA

	(220 V AC) 10 kA (277 V AC) 6 kA (440 V DC) 10 kA (480Y / 277 V AC) 10 kA (500 V DC) 10 kA
<b>Invoice Description:</b>	S204M-C20UC MiniatureCircuitBreaker C-Char., 10kA, 20A, 4P
<b>Maximum Operating Voltage UL/CSA:</b>	480Y/277 V AC 500 V DC
<b>Mechanical Endurance:</b>	20000 cycle
<b>Minimum Order Quantity:</b>	1 piece
<b>Mounting Position:</b>	Any
<b>Mounting on DIN Rail:</b>	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
<b>Number of Poles:</b>	4
<b>Number of Protected Poles:</b>	4
<b>Object Classification Code:</b>	F
<b>Operational Voltage:</b>	Maximum (Incl. Tolerance) 440 V AC Maximum (Incl. Tolerance) 500 V DC Maximum 440 V AC Maximum 500 V DC Minimum 12 V AC Minimum 12 V DC
<b>Options Provided:</b>	Universal current
<b>Overvoltage Category:</b>	III
<b>Package Level 1 EAN:</b>	4013614428586
<b>Package Level 1 Gross Weight:</b>	0.53 kg
<b>Package Level 1 Height:</b>	80 mm
<b>Package Level 1 Length:</b>	58 mm
<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	92 mm
<b>Package Level 2 EAN:</b>	4013614444838
<b>Package Level 2 Gross Weight:</b>	12.64 kg
<b>Package Level 2 Height:</b>	210 mm
<b>Package Level 2 Length:</b>	395 mm
<b>Package Level 2 Units:</b>	24 piece
<b>Package Level 2 Width:</b>	275 mm
<b>Pole Net Weight:</b>	0.125 kg
<b>Pollution Degree:</b>	2
<b>Power Loss:</b>	9.04 W at Rated Operating Conditions per Pole 2.26 W
<b>Power Supply Connection:</b>	Please Note Polarity of Device
<b>Product Main Type:</b>	S200MUC
<b>Product Name:</b>	Miniature Circuit Breaker
<b>Product Net Depth:</b>	69 mm
<b>Product Net Height:</b>	88 mm
<b>Product Net Weight:</b>	0.5 kg
<b>Product Net Width:</b>	70 mm
<b>Rated Current (I<sub>n</sub>):</b>	20 A
<b>Rated Frequency (f):</b>	DC 50 Hz 60 Hz
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	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 60664-1 484 V
<b>Rated Operational Voltage:</b>	acc. to IEC 60898-1 400 V AC acc. to IEC 60898-1 440 V DC acc. to IEC 60898-2 400 V AC acc. to IEC 60947-2 440 V AC acc. to IEC 60947-2 440 V DC
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	(220 V DC) 20 kA
<b>Rated Short-Circuit Capacity (I<sub>cn</sub>):</b>	(253 V AC) 10 kA (400 V AC) 10 kA (440 V DC) 10 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b>	(220 V DC) 25 kA (440 V AC) 10 kA (440 V DC) 10 kA
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Reference Ambient Air Temperature:</b>	30 °C
<b>Remarks:</b>	IP40 in enclosure with cover; Please note polarity of device
<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>Screw Terminal Type:</b>	Failsafe Bi-directional Cylinder-lift Terminal
<b>Selling Unit of Measure:</b>	piece
<b>Standards:</b>	IEC/EN 60898-1 IEC/EN 60947-2
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	2.8 N·m
<b>Tightening Torque UL/CSA:</b>	25 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
<b>Actuator Marking:</b>	I / O

#### Accessories

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

Material	Description	Type	Qty	Unit Of Measure
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

