



PRODUCT-DETAILS

S202M-C20UC

Miniature Circuit Breaker - S200MUC - 2P - 20 A - C - (AC) 10 kA



General Information	
Extended Product Type	S202M-C20UC
Product ID	2CDS272061R0204
EAN	4013614433023
Catalog Description	Miniature Circuit Breaker - S200MUC - 2P - 20 A - C - (AC) 10 kA
Long Description	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.

ABB EcoSolutions	
ABB EcoSolutions	Yes
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 80.7 %

ABB Site Meeting Group
Waste To Landfill Target

No non-hazardous waste is sent to a landfill

Extended Product Lifetime	Product Durability
End Of Life Disassembling Instructions	9AKK108468A3132
Environmental Product Declaration - EPD	9AKK108467A7832

Technical

Dielectric Test Voltage	50 / 60 Hz - 1 min 2 kV
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	(220 V DC) 25 kA (230 V AC) 15 kA (400 V AC) 15 kA (440 V AC) 10 kA (440 V DC) 10 kA (230 V) 10 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs})	(220 V DC) 20 kA
Power Supply Connection	Please Note Polarity of Device
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	20000 AC cycle
Mechanical Endurance	20000 cycle
Number of Protected Poles	2
Number of Poles	2P
Tightening Torque	2.8 N·m
Actuator Type	Toggle
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	I / O
Actuator Material	Insulation Group II, Black, Sealable
Options Provided	Universal current
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Remarks	Please note polarity of device
Connecting Capacity	Busbar 10/10 mm ² Flexible with Ferrule 0.75 ... 25 mm ² Flexible 0.75 ... 25 mm ² Flexible 0.75 ... 25 mm ² Rigid 0.75 ... 35 mm ² Stranded 0.75 ... 35 mm ²
Installation Size	acc. to DIN 43880 1
Terminal Type	Screw Terminals

Electrical

Tripping Characteristic	C
Rated Operational Voltage	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 60898-2 440 V DC acc. to IEC 60947-2 440 V AC

	acc. to IEC 60947-2 440 V DC
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC Maximum (Incl. Tolerance) 500 V DC Minimum 12 V AC Minimum 12 V DC
Rated Insulation Voltage (U _i)	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U _{imp})	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Input Voltage Type	AC/DC
Rated Current (I _n)	20 A
Rated Short-Circuit Capacity	(AC) 10 kA (230 V AC) 10 kA (253 V AC) 10 kA (400 V AC) 10 kA (440 V DC) 10 kA (230 V) 10 kA (400 V) 10 kA
Rated Conditional Short-Circuit Current (I _{nc})	(230 V) 15 kA (400 V) 15 kA
Rated Frequency (f)	50 / 60 Hz DC
Power Loss	4.52 W at Rated Operating Conditions per Pole 2.26 W
Overvoltage Category	III

Design

Housing Material	Insulation Group I, RAL 7035
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Technical UL/CSA

Maximum Operating Voltage UL/CSA	480Y/277 V AC 500 V DC
Interrupting Rating acc. to UL1077	(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
Connecting Capacity UL/CSA	Busbar 14-8 AWG Conductor 14-4 AWG
Tightening Torque UL/CSA	25 in·lb

Material Compliance

RoHS Declaration	2CDK400583D2704
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20110608
REACH Declaration	9AKK107492A1906
REACH Information	False - does not contain substances > 0.1 mass percentage
REACH Date	20250917
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
SCIP	cec6beff-be12-4313-bcef-0d0cbaa3ae87 Germany
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20 Enclosure with Cover IP40
Pollution Degree	3
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations	20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms
Environmental Information	2CDK400030D201

Dimensions

Width in Number of Modular Spacings	2.0
Product Net Width	35 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.24 kg
Pole Net Weight	0.125 kg
Built-In Depth (t ₂)	69 mm

Container Information

Package Level 1 Units	carton 5 piece
Package Level 1 Width	92 mm
Package Level 1 Height	80 mm
Package Level 1 Depth / Length	183 mm
Package Level 1 Gross Weight	1.24 kg
Package Level 1 EAN	4013614424144
Package Level 2 Units	carton 60 piece
Package Level 2 Width	275 mm
Package Level 2 Height	210 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Gross Weight	15.28 kg
Package Level 2 EAN	4013614444494

Ordering

Minimum Order Quantity	1 piece
E-Number (Finland)	3210344

E-Number (Norway)

1682658

Certificates and Declarations

Declaration of
Conformity - CE

2CDK400583D2704

Installation

Instructions and
Manuals

2CDS207104P0002

Popular Downloads

Data Sheet, Technical
Information

2CDC002142D0207

External Classifications and Standards

ETIM 8	EC000042 - Miniature circuit breaker (MCB)
ETIM 9	EC000042 - Miniature circuit breaker (MCB)
UNSPSC	39121603
eClass	V11.0 : 27141901
IDEA Granular Category Code (IGCC)	4899 >> Miniature circuit breaker (MCB) screw-in model
Object Classification Code	F
Standards	IEC/EN 60898-2 IEC/EN 60947-2
Certification Agency	EN IEC
Standardization Body	EN IEC

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact 1CO	S2C-H6R	1	piece
2CDS200970R0031	S2C-H01 Bottom-fitting auxiliary contact S2C-H01 Bottom-fitting auxiliary contact 1NC	S2C-H01	1	piece
2CDS200970R0032	S2C-H10 Bottom-fitting auxiliary contact 1NO	S2C-H10	1	piece
2CDS200936R0001	S2C-H11L Auxiliary Contact 1NO / 1NC, Left side mounting	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact 2NO	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L Auxiliary Contact 2NC, Left side mounting	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary contact 1NO/1NC	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary contact 2NO	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary contact 2NC	S2C-H6-02R	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
GHS2001901R0003	S2C-DH Rotary operating mechanism	S2C-DH	1	piece
2CSS200998R0001	S2C-BP Mechanical tripping device	S2C-BP	1	piece
2CSS200999R0001	S2C-EST Plug-in base	S2C-EST	1	piece
2CDS200918R0001	S2C-Nt Hand operated neutral	S2C-NT	1	piece
2CCA880100R0001	CMS-100PS Sensor	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Sensor	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Sensor	CMS-102PS	1	piece

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs → S200MUC

Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)

