

PRODUCT-DETAILS

S202-C20 S202-C20 Miniature Circuit Breaker - 2P - C - 20 A



Extended Product Type	S202-C20
Product ID	2CDS252001R0204
EAN	4016779466004
Catalog Description	S202-C20 Miniature Circuit Breaker - 2P - C - 20 A
Long Description	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 allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space

ABB EcoSolutions ABB EcoSolutions Yes

Circular Value	
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Sustainable Material Content	0 %
Offered with Extended Lifetime	Product Durability
Offered with Takeback	Take Back for Recycling

Services

Eco Transparency

Environmental Product 9AKK108467A7832
Declaration - EPD

Technical		
Standards	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077	
Tripping Characteristic	GE 1677	
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 440 V AC	
Operational Voltage	Maximum (Incl. Tolerance) 125 V DC Maximum (Incl. Tolerance) 440 V AC 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	
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV	
Input Voltage Type	AC/DC	
Rated Current (I _n)	20 A	
Rated Short-Circuit Capacity	(AC) 6 kA (DC) 6 kA (400 V AC) 6 kA	
Rated Ultimate Short- Circuit Breaking Capacity (I _{cu})	(125 V DC) 10 kA (230 V AC) 20 kA (400 V AC) 10 kA (440 V AC) 10 kA (48 V DC) 20 kA	
Rated Conditional Short- Circuit Current (I _{nc})	(230 V) 20 kA (400 V) 20 kA	
Rated Service Short- Circuit Breaking Capacity (I _{cs})	(230 V AC) 15 kA (400 V AC) 7.5 kA (440 V AC) 7.5 kA	
Frequency (f)	50 Hz	
Rated Frequency (f)	50 / 60 Hz	
Power Loss	5 W	
Dawer Cumply Connection	at Rated Operating Conditions per Pole 2.5 W	
Power Supply Connection Contact Position Indication	Arbitrary Red ON / Green OFF	
Energy Limiting Class	3	
Electrical Endurance	20000 AC cycle	
Mechanical Endurance	20000 cycle	
Number of Poles	2	
Number of Protected Poles	2	
Overvoltage Category		
Tightening Torque	2.8 N·m	
Mounting Type	DIN-Rail	
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal	
Actuator Marking	1/0	
Actuator Material	Insulation Group II, Black, Sealable	
Housing Material	Insulation Group II, RAL 7035	
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	
Recommended Screw Driver	Pozidriv 2	

Accessories Available	Yes
Connecting Capacity	Busbar 10 / 10 mm²
	Flexible with Ferrule 0.75 25 mm ²
	Flexible 0.75 25 mm ²
	Rigid 0.75 35 mm² Stranded 0.75 35 mm²
Installation Size	acc. to DIN 43880 1
Wire Stripping Length	12.5 mm
Terminal Type	Screw Terminals
Environmental	
Ambient Air Temperature	Operation -25 +55 °C
	Storage -40 +70 °C
Reference Ambient Air	30 °C
Temperature 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	5g, 20 cycles at 5 150 5 Hz with load 0.8 In
acc. to IEC 60068-2-6 Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Information	2CDK403001D0607
REACH Declaration	9AKK107492A1906
SCIP	e6800e55-46b1-49a3-881b-0f66d0e903ad Germany (DE)
JOIL	e0000e33-40b1-49a3-001b-0100d0e903ad Germany (DE)
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
Reporting Template (CMRT) Technical UL/CSA Maximum Operating	110 V DC
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA	110 V DC 480Y/277 V AC
Reporting Template (CMRT) Technical UL/CSA Maximum Operating	110 V DC 480Y/277 V AC (277 V AC) 6 kA (480Y / 277 V AC) 6 kA
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity	110 V DC 480Y/277 V AC) (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque	110 V DC 480Y/277 V AC (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA	110 V DC 480Y/277 V AC (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque	110 V DC 480Y/277 V AC (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA	110 V DC 480Y/277 V AC) (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in·lb
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of	110 V DC 480Y/277 V AC) 6 kA (247 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in-lb
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings	110 V DC 480Y/277 V AC) (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in-lb
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width	110 V DC 480Y/277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in·lb
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width Product Net Height	110 V DC 480Y/277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in·lb
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width Product Net Height Product Net Depth /	110 V DC 480Y/277 V AC) 6 kA (277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in·lb
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width Product Net Height Product Net Depth / Length	110 V DC 480Y/277 V AC) 6 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in·lb
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width Product Net Height Product Net Depth / Length Product Net Weight	110 V DC 480Y/277 V AC) 6 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG The in-lb 2 35 mm 88 mm 69 mm 0.25 kg 0.125 kg
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width Product Net Height Product Net Depth / Length Product Net Weight Pole Net Weight	110 V DC 480Y/277 V AC) 6 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in·lb 2 35 mm 88 mm 69 mm 0.25 kg 0.125 kg
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width Product Net Height Product Net Depth / Length Product Net Weight Pole Net Weight Built-In Depth (t ₂)	110 V DC 480Y/277 V AC) 6 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in·lb 2 35 mm 88 mm 69 mm 0.25 kg 0.125 kg
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width Product Net Height Product Net Depth / Length Product Net Weight Pole Net Weight Built-In Depth (t ₂)	9AKK108468A3363 110 V DC 480Y/277 V AC) (277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG The standard s
Reporting Template (CMRT) Technical UL/CSA Maximum Operating Voltage UL/CSA Interrupting Rating acc. to UL1077 Connecting Capacity UL/CSA Tightening Torque UL/CSA Dimensions Width in Number of Modular Spacings Product Net Width Product Net Height Product Net Depth / Length Product Net Weight Pole Net Weight Built-In Depth (t ₂) Dimension Diagram	110 V DC 480Y/277 V AC) 6 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA Busbar 18-8 AWG Conductor 18-4 AWG 18 in·lb 2 35 mm 88 mm 69 mm 0.25 kg 0.125 kg

Package Level 1 Gross Weight	1.3 kg		
E-Number (Finland)	3210520		
E-Number (Sweden)	2100562		
Certificates and Declarations			
Certification Agency	EN IEC UL		
Declaration of Conformity - CE	2CDK403001D0607		
Declaration of Conformity - UKCA	9AKK108467A5053		
<u>I²t Characteristic</u>	9AKK107992A5102		
Installation			
Instructions and Manuals	2CDS207104P0002		
Popular Downloads			
Data Sheet, Technical Information	9AKK107991A8329		
I²t Characteristic	9AKK107992A5102		
T Cital acteristic	3AR 10/332A310Z		
Classifications			
ETIM 8	EC000042 - Miniature circuit breaker (MCB)		
ETIM 9	EC000042 - Miniature circuit breaker (MCB)		
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)		
WEEE B2C / B2B	Business To Business		
CN8	8536 20 10		
UNSPSC	39121603		
eClass	V11.0 : 27141901		
	4907 >> Miniatura airauit braakara		
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breakers		

Accessories

Identifier	Description	Туре	Quantity	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Signal / Auxiliary Contact	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact	S2C-H6R	1	piece
2CDS200936R0001	S2C-H11L Auxiliary Contact	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact	S2C-H20L	1	piece
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
2CDS200909R0001	S2C-A1 Shunt Trip	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 Shunt Trip	S2C-A2	1	piece
2CSS200911R0001	S2C-UA 12 DC Undervoltage Release S	S2C-UA 12 DC	1	piece
2CSS200911R0002	S2C-UA 24 AC Undervoltage Release S	S2C-UA 24 AC	1	piece
2CSS200911R0003	S2C-UA 48 AC Undervoltage Release S	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 S	S2C-UA 24 DC	1	piece
2CSS200911R0008	S2C-UA 48 DC Undervoltage Release S	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
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
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\ \rightarrow\ Modular\ DIN\ Rail\ Products\ \rightarrow\ Miniature\ Circuit\ Breakers\ MCBs\ \rightarrow\ Miniature\ MCBs\$





