

PRODUCT-DETAILS

S203M-C20 S203M-C20 Miniature Circuit Breaker - 3P - C -20 A



Extended Product Type	S203M-C20
Product ID	2CDS273001R0204
EAN	4016779550468
Catalog Description	S203M-C20 Miniature Circuit Breaker - 3P - C - 20 A
Long Description	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

ABB EcoSolutions	
ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108469A3798

Circular Value

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Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90.6 %
Offered with Extended Lifetime	Product Durability
Offered with Takeback Services	Take Back for Recycling
End of Life Instructions	9AKK108468A3132
Eco Transparency	
Environmental Product Declaration - EPD	9AKK108467A7833
Technical	
Standards	IEC/EN 60898-1 CSA 22.2 No. 235 IEC/EN 60947-2 UL 1077
Tripping Characteristic Rated Operational Voltage	C acc. to IEC 60898-1 400 V AC
	acc. to IEC 60898-1 400 V acc. to IEC 60947-2 440 V AC
Operational Voltage	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) Rated Short-Circuit Capacity	20 A (AC) 10 kA (230 V AC) 10 kA (400 V AC) 10 kA (400 V) 10 kA
Rated Ultimate Short- Circuit Breaking Capacity (I_{cu})	(230 V AC) 25 kA (400 V AC) 15 kA (440 V AC) 15 kA (230 V) 25 kA (230 V) 25 kA (400 V) 15 kA
Rated Conditional Short- Circuit Current (I _{nc})	(230 V) 15 kA (400 V) 25 kA
Rated Service Short- Circuit Breaking Capacity (I _{cs})	(230 V AC) 7.5 kA
Frequency (f)	50 Hz
Rated Frequency (f)	50 / 60 Hz
Power Loss	7.5 W 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 Protected Poles	3
Number of Poles	3
Overvoltage Category	
Tightening Torque	2.8 N·m

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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 mm² Flexible 0.75 25 mm² Flexible 0.75 25 mm² Rigid 0.75 35 mm² Rigid 0.75 35 mm² Stranded 0.75 35 mm²
Installation Size	acc. to DIN 43880 1
Terminal Type	Screw Terminals

Material Compliance	
RoHS Information	2CDK400003K0203
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20161001
REACH Declaration	9AKK108468A9644
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20231212
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental	
Ambient Air Temperature	Operation -25 +55 °C Storage -40 +70 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20 IP40 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

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	125 V DC 480Y/277 V AC
Interrupting Rating acc. to UL1077	(125 V DC) 10 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA
Connecting Capacity UL/CSA	Busbar 14-8 AWG Conductor 14-4 AWG
Tightening Torque <u>UL/CSA</u>	18 in·lb

Dimensions	
Width in Number of Modular Spacings	3
Product Net Width	52.5 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.375 kg
Pole Net Weight	0.125 kg
Built-In Depth (t ₂)	69 mm
Dimension Diagram	2CDC022007F0010

Ordering	
Package Level 1 Units	carton 1 piece
Package Level 1 Gross Weight	0.4 kg
E-Number (Finland)	3210814
E-Number (Sweden)	2101245

Certificates and Declarations	
Certification Agency	EN IEC
Declaration of Conformity - CE	2CDK403001D0607
Declaration of Conformity - UKCA	9AKK108467A5053
I ² t Characteristic	9AKK107992A5102

Installation	
Instructions and Manuals	2CDS207104P0002

Popular Downloads	
Data Sheet, Technical Information	9AKK107046A0423
I ² t Characteristic	9AKK107992A5102

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		
<u>CN8</u>	8536 20 10		
UNSPSC	3912160		
eClass	V11.0 : 2714190		
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breakers		
Object Classification Code	F		

Accessories

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Unit Of Measure	Quantity	Туре	Description	Identifier
piece	1	S2C-S/H6R	S2C-S/H6R Signal / Auxiliary Contact	2CDS200922R0001
piece	1	S2C-H6R	S2C-H6R Auxiliary Contact	2CDS200912R0001
piece	1	S2C-H01	S2C-H01 Auxiliary Contact	2CDS200970R0031
piece	1	S2C-H10	S2C-H10 Auxiliary Contact	2CDS200970R0032
piece	1	S2C-H11L	S2C-H11L Auxiliary Contact	2CDS200936R0001
piece	1	S2C-H20L	S2C-H20L Auxiliary Contact	2CDS200936R0002
piece	1	S2C-H02L	S2C-H02L Auxiliary Contact	2CDS200936R0003
piece	1	S2C-H6-11R	S2C-H6-11R Auxiliary Contact	2CDS200946R0001
piece	1	S2C-H6-20R	S2C-H6-20R Auxiliary Contact	2CDS200946R0002
piece	1	S2C-H6-02R	S2C-H6-02R Auxiliary Contact	2CDS200946R0003
piece	1	S2C-A1	S2C-A1 Shunt Trip	2CDS200909R0001
piece	1	S2C-A2	S2C-A2 Shunt Trip	2CDS200909R0002
piece	1	62C-UA 12 DC	S2C-UA 12 DC Undervoltage Release S	2CSS200911R0001
piece	1	62C-UA 24 AC	S2C-UA 24 AC Undervoltage Release S	2CSS200911R0002
piece	1	62C-UA 48 AC	S2C-UA 48 AC Undervoltage Release S	2CSS200911R0003
piece	1	S2C-UA 110 AC	S2C-UA 110 AC Undervoltage Release	2CSS200911R0004
piece	1	S2C-UA 230 AC	S2C-UA 230 AC Undervoltage Release	2CSS200911R0005
piece	1	S2C-UA 400 AC	S2C-UA 400 AC Undervoltage Release	2CSS200911R0006
piece	1	62C-UA 24 DC	S2C-UA 24 DC Undervoltage Release S	2CSS200911R0007
piece	1	008 S2C-UA 48 DC Undervoltage Release S2C-UA 48 DC		2CSS200911R0008
piece	1	S2C-UA 110 DC	S2C-UA 110 DC Undervoltage Release	2CSS200911R0009
piece	1	S2C-UA 230 DC	S2C-UA 230 DC Undervoltage Release	2CSS200911R0010
piece	1	S2C-DH	S2C-DH Mechanical Accessories	GHS2001901R0003
piece	1	S2C-BP	S2C-BP Mechanical tripping device	2CSS200998R0001
piece	1	S2C-EST	S2C-EST Plug-in base	2CSS200999R0001
piece	1	S2C-NT	S2C-NT Hand Operated Neutral	2CDS200918R0001
piece	1	CMS-100PS	CMS-100PS Sensor	2CCA880100R0001
piece	1	CMS-101PS	CMS-101PS Sensor	2CCA880101R0001
piece	1	CMS-102PS	CMS-102PS Sensor	2CCA880102R0001

Categories

 $\label{eq:low-voltage-roducts-sector} \text{Low-Voltage-Products-sector} \\ \text{Modular-DIN-Rail-Products-sector} \\ \text{Miniature-Circuit-Breakers-MCBs-sector} \\ \ \text{Miniature-Circuit-Breakers-MC$









6/6

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