

PRODUCT-DETAILS

S203M-C50

S203M-C50 Miniature Circuit Breaker - 3P - C - 50 A



General Information	
Extended Product Type	S203M-C50
Product ID	2CDS273001R0504
EAN	4016779543996
Catalog Description	S203M-C50 Miniature Circuit Breaker - 3P - C - 50 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

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Circular Value

Circular Design Principles Recyclability Rate Design for Closing Resource Loops - Standard EN45555 - 90 %

Sustainable Material

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0 %

Content

Offered with Extended Lifetime	Product Durability
Offered with Takeback	Take Back for Recycling
Services	

Eco Transparency

Environmental Product 9AKK108467A7833
Declaration - EPD

Technical	
Standards	IEC/EN 60898-1 CSA 22.2 No. 235 IEC/EN 60947-2 UL 1077
Tripping Characteristic	C
Rated Operational Voltage	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 (In)	50 A
Rated Short-Circuit Capacity	(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 (400 V) 15 kA
Rated Conditional Short- Circuit Current (Inc)	(230 V) 10 kA (400 V) 20 kA
Rated Service Short- Circuit Breaking Capacity (I _{cs})	(133 V AC) 15 kA (230 V AC) 7.5 kA
Frequency (f)	50 Hz
Rated Frequency (f)	50 / 60 Hz 50 60 Hz
Power Loss	9.75 W at Rated Operating Conditions per Pole 3.25 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 AC cycle
Mechanical Endurance	20000 cycle
Number of Poles	3
Number of Protected Poles	3

Overvoltage Category	III
Tightening Torque	2.8 N·m
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 Flexible 0.75 35 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

Environmental	
Ambient Air Temperature	Operation -25 +55 °C Storage -40 +70 °C
Reference Ambient Air	30°C
Temperature	
Degree of Protection	IP20
	IP40
	Enclosure with Cover IP40
Pollution Degree	3
Environmental	28 cycles
Conditions	with 55 °C / 90-96 %
	and 25 °C / 95-100 %
Resistance to Vibrations acc. to IEC 60068-2-6	5g, 20 cycles at 5 150 5 Hz with load 0.8 In
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	2CDK400003K0203
REACH Declaration	9AKK107492A1906
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

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 UL/CSA	18 in-lb

Dimensions

3
52.5 mm
88 mm
69 mm
0.375 kg
0.125 kg
69 mm
2CDC022007F0010

Ordering	
Minimum Order Quantity	1 piece
Package Level 1 Units	carton 1 piece
Package Level 1 Gross Weight	0.4 kg
E-Number (Finland)	3210818
E-Number (Sweden)	2101249

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

Installation	
Instructions and	2CDS207104P0002
Manuals	

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

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
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breakers
Object Classification Code	F

				Accessories
Unit Of Measure	Type Quantity		Description	
piece	1	S2C-S/H6R	S2C-S/H6R Signal / Auxiliary Contact	2CDS200922R0001
piece	1	S2C-H6R	S2C-H6R Auxiliary Contact	2CDS200912R0001
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	S2C-UA 12 DC	S2C-UA 12 DC Undervoltage Release	2CSS200911R0001
piece	1	S2C-UA 24 AC	S2C-UA 24 AC Undervoltage Release	2CSS200911R0002
piece	1	S2C-UA 48 AC	S2C-UA 48 AC Undervoltage Release	2CSS200911R0003
piece	1	S2C-UA 110 AC	S2C-UA 110 AC Undervoltage ReleaseS	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	S2C-UA 24 DC	S2C-UA 24 DC Undervoltage Release	2CSS200911R0007
piece	1	S2C-UA 48 DC	S2C-UA 48 DC Undervoltage Release	2CSS200911R0008
piece	1	S2C-UA 110 DC	S2C-UA 110 DC Undervoltage ReleaseS	2CSS200911R0009
piece	1	S2C-UA 230 DC	S2C-UA 230 DC Undervoltage Release	2CSS200911R0010
piece	1	S2C-CM1	S2C-CM1 Motor operating device	2CSS201997R0013
piece	1	S2C-CM2/3	S2C-CM2/3 Motor operating device	2CSS203997R0013
piece	1	S2C-CM4	S2C-CM4 Motor operating device	2CSS204997R0013
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

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





