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PRODUCT-DETAILS

## S201M-C16

## S201M-C16 Miniature Circuit Breaker - 1P - C - 16 A



Extended Product Type	S201M-C16
Product ID	2CDS271001R0164
EAN	4016779550000
Catalog Description	S201M-C16 Miniature Circuit Breaker - 1P - C - 16 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

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Circular Value	
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90.6 %
End of Life Instructions	9AKK108468A3132

## Environmental Product 9AKK108467A7833 Declaration - EPD

IEC/EN 60947. UL 107 CSA 22.2 No. 23 Tripping Characteristic	Technical	
CSA 22.2 No. 23	Standards	IEC/EN 60898- IEC/EN 60947-2
Tripping Characteristic  Rated Operational  Voltage  Rated Operational  Operational Voltage  Rated Operational  Operational Voltage  Rated Operational Voltage  Rated Insulation Voltage  Rated Impulse  Rated Impulse  Rated Impulse  Rated Impulse  Rated Insulation Voltage  Rated Impulse  Rated Insulation Voltage  Rated Insulation Voltage  Rated Insulation Voltage  Rated Current (In)  Rated Current (In)  Rated Current (In)  Rated Short-Circuit  Rated Short-Circuit  Rated Short-Circuit Resking  Rated Current (In)  Rated Short-Circuit Resking  Rated Conditional Short-Circuit Rate Rate Rate Rate Rate Rate Rate Rat		UL 1077
Rated Operational Voltage         acc. to IEC 60898-1 230 / 400 V Arac. to IEC 6084-7 230 V Arac. to IEC 6084-7 230 V Arac. to IEC 6084-7 230 V Arac. Maximum (Incl. Tolerance) 725 V Dr. Maximum (Incl. Tolerance) 725 V Dr. Maximum 12 V Arac. Max	Trinning Characteristic	CSA 22.2 NO. 235
Voltage   Ac. to IEC 60989-1 230 / Acc. to IEC 60989-1 230 / Acc. to IEC 60987-2 230 V Acc. to IEC 60989-1 230 V Acc. to	,, <u>,</u>	
Maximum (Incl. Tolerance) 72 V D Minimum 12 V A M	Voltage	acc. to IEC 60638-1230 / 400 V AC acc. to IEC 60898-1 230 V acc. to IEC 60947-2 230 V AC
(U1)       At Rated Impulse       4 kWithstand Voltage (Uimp)       at 2000 m 5 k/s)         (Withstand Voltage (Uimp)       at Sea Level 6.2 k/s)         Dielectric Test Voltage       50/60 Hz, 1 min. 2 k/s         Input Voltage Type       AC/DU         Rated Current (In)       16.         Rated Short-Circuit       (AC) 10 k/s         Capacity       (230 / 400 V AC) 10 k/s         Rated Ultimate Short-Circuit (400 V) 10 k/s       (230 V AC) 15 k/s         Circuit Breaking       (230 V AC) 15 k/s         Capacity (I <sub>CU</sub> )       (230 V AC) 15 k/s         Capacity (I <sub>CU</sub> )       (230 V AC) 15 k/s         Rated Conditional Short-Circuit Breaking       (230 V AC) 15 k/s         Circuit Everse Short-Circuit Current (Inc)       (230 V AC) 15 k/s         Circuit Everse Short-Circuit Current (Inc)       (33 V AC) 18.8 k/s         Capacity (I <sub>CS</sub> )       50 / 60 H         Frequency (f)       50 / 60 H         Rated Frequency (f)       50 / 60 H         Power Loss       at Rated Operating Conditions per Pole 2.5 k/s         Connection       Red ON / Green OF Indication         Energy Limiting Class       Red ON / Green OF Indication         Energy Limiting Class       Red ON / Green OF Indication         Whechanical Endurance       20000 AC cycl<	Operational Voltage	Maximum (Incl. Tolerance) 253 V AC Maximum (Incl. Tolerance) 72 V DC Minimum 12 V AC Minimum 12 V DC
Withstand Voltage (Uimp)         at 2000 m 5 kg of at 2000 m 5 kg of 2000 m 5 k	Rated Insulation Voltage (Ui)	acc. to IEC/EN 60664-1 440 \
Dielectric Test Voltage	Rated Impulse	4 kV
Input Voltage Type	Withstand Voltage (U <sub>imp</sub> )	at 2000 m 5 kV at Sea Level 6.2 kV
Rated Current (In)       16.         Rated Short-Circuit       (230 / 400 V AC) 10 k.         Capacity       (230 / 400 V AC) 10 k.         Rated Ultimate Short-       (133 V AC) 25 k.         Circuit Breaking       (230 V AC) 15 k.         Capacity (Icu)       (230 V AC) 15 k.         Rated Conditional Short-       (230 V AC) 15 k.         Circuit Current (Inc.)       (230 V AC) 15 k.         Rated Service Short-       (133 V AC) 18.8 k.         Circuit Ereaking       (230 V AC) 7.5 k.         Capacity (Ics)       (230 V AC) 7.5 k.         Capacity (Ics)       50 H         Rated Frequency (f)       50 H         Rated Frequency (f)       50 H         Power Loss       2.5 V         Power Loss       at Rated Operating Conditions per Pole 2.5 v         Power Supply       Arbitrar         Connection       Red ON / Green OF Indication         Energy Limiting Class       Electrical Endurance       20000 AC cycl         Mechanical Endurance       20000 cycl         Number of Protected       20000 cycl	Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Rated Short-Circuit       (AC) 10 k.         Capacity       (230 / 400 V AC) 10 k.         (230 / 10 k.       (230 V 10 k.         (400 V) 10 k.       (400 V) 10 k.         (50 Circuit Breaking       (230 V AC) 15 k.         Capacity (1cu)       (230 V) 15 k.         Capacity (1cu)       (400 V) 15 k.         Rated Conditional Short-       (230 V) 15 k.         Circuit Current (1nc)       (133 V AC) 18.8 k.         Rated Service Short-       (133 V AC) 18.8 k.         Circuit Breaking       (230 V AC) 7.5 k.         Capacity (1cs)       (230 V AC) 7.5 k.         Frequency (f)       50 H         Rated Frequency (f)       50 H         Read Frequency (f)       50 H         Power Loss       2.5 V         at Rated Operating Conditions per Pole 2.5 V         Power Supply       Arbitrar         Contact Position       Red ON / Green OF         Indication       Red ON / Green OF         Energy Limiting Class       20000 AC cycl         Mechanical Endurance       20000 Cycl         Number of Protected       20000 Cycl	Input Voltage Type	AC/DC
Capacity       (230 / 400 V AC) 10 k         Rated Ultimate Short-       (133 V AC) 25 k         Circuit Breaking       (230 V AC) 15 k         Capacity (I <sub>cu</sub> )       (230 V 15 k         Capacity (I <sub>cu</sub> )       (230 V) 15 k         Rated Conditional Short-       (230 V) 15 k         Circuit Current (I <sub>Inc</sub> )       (230 V AC) 7.5 k         Rated Service Short-       (133 V AC) 18.8 k         Circuit Breaking       (230 V AC) 7.5 k         Capacity (I <sub>cs</sub> )       50 H         Frequency (f)       50 H         Rated Frequency (f)       50 H         Read Operating Conditions per Pole 2.5 v       at Rated Operating Conditions per Pole 2.5 v         Power Supply       Arbitrar         Contact Position       Red ON / Green OF Indication         Energy Limiting Class       Electrical Endurance       20000 AC cycl         Mechanical Endurance       20000 cycl         Number of Protected       20000 cycl	Rated Current (In)	16 A
Circuit Breaking       (230 V AC) 15 kg         Capacity (I <sub>Cu</sub> )       (230 V) 15 kg         Rated Conditional Short-       (230 V) 15 kg         Circuit Current (I <sub>nc</sub> )       (230 V) 15 kg         Rated Service Short-       (133 V AC) 18.8 kg         Circuit Breaking       (230 V AC) 7.5 kg         Capacity (I <sub>Cs</sub> )       50 Hg         Frequency (f)       50 Hg         Rated Frequency (f)       50 Hg         Power Loss       2.5 Vg         Power Supply       Arbitrar         Contact Position       Red ON / Green OF Indication         Energy Limiting Class       Electrical Endurance       20000 AC cycl         Mechanical Endurance       20000 cycl         Number of Protected       20000 cycl	Rated Short-Circuit Capacity	(AC) 10 kA (230 / 400 V AC) 10 kA (230 V) 10 kA (400 V) 10 kA
Capacity (I <sub>cu</sub> )       (230 V) 15 k. (400 V) 15 k.         Rated Conditional Short-       (230 V) 15 k.         Circuit Current (Inc)       (133 V AC) 18.8 k.         Rated Service Short-       (133 V AC) 18.8 k.         Circuit Breaking       (230 V AC) 7.5 k.         Capacity (I <sub>cs</sub> )       50 H         Frequency (f)       50 / 60 H         Rated Frequency (f)       50 / 60 H         Power Loss       2.5 V         at Rated Operating Conditions per Pole 2.5 V       at Rated Operating Conditions per Pole 2.5 V         Contact Position       Red ON / Green OF Indication         Energy Limiting Class       Electrical Endurance       20000 AC cycl         Mechanical Endurance       20000 cycl         Number of Protected       20000 cycl	Rated Ultimate Short-	(133 V AC) 25 kA
Rated Conditional Short- (230 V) 15 k.  Rated Service Short- (230 V) 15 k.  Circuit Breaking (230 V AC) 18.8 k.  Circuit Breaking (230 V AC) 7.5 k.  Capacity (I <sub>CS</sub> )  Frequency (f)  Rated Frequency (f)  Power Loss 2.5 V at Rated Operating Conditions per Pole 2.5 V Power Supply Connection  Contact Position Red ON / Green OF Indication  Energy Limiting Class  Electrical Endurance  20000 AC cycl  Mechanical Endurance  20000 cycl  Number of Protected	Circuit Breaking	(230 V AC) 15 kA
Rated Conditional Short- Circuit Current (Inc)  Rated Service Short- (133 V AC) 18.8 k. Circuit Breaking (230 V AC) 7.5 k. Circuit Breaking (230 V AC) 7.5 k. Circuit Breaking (230 V AC) 7.5 k. Capacity (Ics)  Frequency (f)  Rated Frequency (f)  Foother Loss  Power Loss  Power Supply Connection  Contact Position Contact Position Red ON / Green OF Indication  Energy Limiting Class  Electrical Endurance  20000 AC cycl Mechanical Endurance  20000 cycl Number of Protected	Capacity (I <sub>cu</sub> )	• • • • • • • • • • • • • • • • • • • •
Rated Service Short- Circuit Breaking Capacity (I <sub>Cs</sub> )  Frequency (f)  Rated Frequency (f)  Fower Loss  Power Supply Connection  Contact Position  Energy Limiting Class  Electrical Endurance  Mechanical Endurance  Coyo (230 V AC) 7.5 k (240 V A	Rated Conditional Short-	(230 V) 15 kA
Circuit Breaking Capacity (I <sub>Cs</sub> )  Frequency (f)  Rated Frequency (f)  Power Loss  Power Supply Connection  Contact Position Indication  Energy Limiting Class  Electrical Endurance  Mechanical Endurance  Capacity (I <sub>Cs</sub> )  (230 V AC) 7.5 k.  Energy Head on Horizon (An example of Power Supply (An example of Power Supp	Rated Service Short-	(133 V AC) 18.8 kA
Rated Frequency (f)  Power Loss  2.5 V at Rated Operating Conditions per Pole 2.5 V  Power Supply Connection  Contact Position Indication  Energy Limiting Class  Electrical Endurance  Mechanical Endurance  20000 cycl  Number of Protected	Circuit Breaking Capacity (I <sub>cs</sub> )	(230 V AC) 7.5 kA
Power Loss  2.5 V at Rated Operating Conditions per Pole 2.5 V Power Supply Connection  Contact Position Red ON / Green OF Indication  Energy Limiting Class Electrical Endurance Mechanical Endurance  20000 Cycl Number of Protected	Frequency (f)	50 Hz
Red Operating Conditions per Pole 2.5 V Power Supply Connection  Contact Position Red ON / Green OF Indication  Energy Limiting Class Electrical Endurance Mechanical Endurance  20000 AC cycl Number of Protected	Rated Frequency (f)	50 / 60 Hz
Connection  Contact Position Red ON / Green OF Indication  Energy Limiting Class  Electrical Endurance Mechanical Endurance 20000 Cycl Number of Protected	Power Loss	2.5 W at Rated Operating Conditions per Pole 2.5 W
Indication  Energy Limiting Class  Electrical Endurance 20000 AC cycl  Mechanical Endurance 20000 cycl  Number of Protected	Power Supply Connection	Arbitrary
Electrical Endurance 20000 AC cycl Mechanical Endurance 20000 cycl Number of Protected	Contact Position Indication	Red ON / Green OFF
Mechanical Endurance 20000 cycl Number of Protected	Energy Limiting Class	3
Number of Protected	Electrical Endurance	20000 AC cycle
	Mechanical Endurance	20000 cycle
	Number of Protected Poles	:

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Number of Poles	1
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 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
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
SCIP	9008497a-14f6-4cfd-83c5-11cf3bc660d1 Germany (DE)

Environmental	
Ambient Air	Operation -25 +55 °C
Temperature	Storage -40 +70 °C
Reference Ambient Air Temperature	30 °C
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	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	60 V DC
Voltage UL/CSA	480Y/277 V AC
Interrupting Rating acc.	(277 V AC) 6 kA

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(480Y / 277 V AC) 6 (60 V DC) 10	to UL1077
Busbar 14-8 A	Connecting Capacity
Conductor 14-4 A	UL/CSA
18 iı	Tightening Torque UL/CSA
	Dimensions
	Width in Number of Modular Spacings
17.5 r	Product Net Width
88 r	Product Net Height
69 r	Product Net Depth / Length
0.125	Product Net Weight
0.125	Pole Net Weight
69 r	Built-In Depth (t <sub>2</sub> )
2CDC022007F00	Dimension Diagram
	Ordering
carton 10 pi	Package Level 1 Units
1.295	Package Level 1 Gross Weight
3210	E-Number (Finland)
3210 <sup>-</sup> 2101	E-Number (Finland) E-Number (Sweden)
	E-Number (Sweden)
2101	
2101	E-Number (Sweden)  Certificates and Declarations  Certification Agency
2101	E-Number (Sweden)  Certificates and Declarations
2101	E-Number (Sweden)  Certificates and Declarations  Certification Agency  Declaration of
2101 2CDK403001D06	E-Number (Sweden)  Certificates and Declarations  Certification Agency  Declaration of Conformity - CE  Declaration of
2101 2CDK403001D06 9AKK108467A56	E-Number (Sweden)  Certificates and Declarations  Certification Agency  Declaration of Conformity - CE  Declaration of Conformity - UKCA
2101 2CDK403001D06 9AKK108467A56	E-Number (Sweden)  Certificates and Declarations  Certification Agency  Declaration of Conformity - CE  Declaration of Conformity - UKCA
2101 2CDK403001D06 9AKK108467A56	E-Number (Sweden)  Certificates and Declarations  Certification Agency  Declaration of Conformity - CE  Declaration of Conformity - UKCA
2CDK403001D06 9AKK108467A56 9AKK107992A5	E-Number (Sweden)  Certificates and Declarations  Certification Agency  Declaration of Conformity - CE  Declaration of Conformity - UKCA  I²t Characteristic  Installation  Instructions and
2CDK403001D06 9AKK108467A56 9AKK107992A5	E-Number (Sweden)  Certificates and Declarations  Certification Agency  Declaration of Conformity - CE  Declaration of Conformity - UKCA  I²t Characteristic  Installation  Instructions and
2CDK403001D06 9AKK108467A56 9AKK107992A5	E-Number (Sweden)  Certificates and Declarations  Certification Agency  Declaration of Conformity - CE  Declaration of Conformity - UKCA  I't Characteristic  Installation  Instructions and Manuals

Classifications

ETIM 8

ETIM 9

EC000042 - Miniature circuit breaker (MCB)

EC000042 - Miniature circuit breaker (MCB)

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EEE Category 5. Small Equipment (No External Dimension More T	
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				
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
2CDS200970R0001	S2C-H01 Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0002	S2C-H10 Auxiliary Contact	S2C-H10	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	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
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

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## **Categories**

 $Low\ Voltage\ Products\ \rightarrow\ Miniature\ Circuit\ Breakers\ MCBs\ \rightarrow\ Miniature\ Circuit\ Breakers\ MCBs$ 

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







