

PRODUCT-DETAILS

S203M-C32

S203M-C32 Miniature Circuit Breaker - 3P - C - 32 A



General Information

Extended Product Type	S203M-C32
Product ID	2CDS273001R0324
EAN	4016779550482
Catalog Description	S203M-C32 Miniature Circuit Breaker - 3P - C - 32 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	Design for Closing Resource Loops - Standard EN45555 - 90 %
Recyclability Rate	
Offered with Extended Lifetime	Product Durability
Offered with Takeback Services	Take Back for Recycling

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	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 (I_n)	32 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 (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 50 ... 60 Hz
Power Loss	11.1 W at Rated Operating Conditions per Pole 3.7 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	I / O
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

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
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

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 (t₂)

69 mm

Dimension Diagram

2CDC022007F0010

Ordering

Package Level 1 Units

carton 1 piece

Package Level 1 Gross
Weight

0.4 kg

E-Number (Finland)	3210816
E-Number (Sweden)	2101247

Certificates and Declarations

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

Installation

Instructions and Manuals	2CDS207104P0002
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Popular Downloads

Data Sheet, Technical Information	9AKK107046A0423
† 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

Identifier	Description	Type	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

Categories

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



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