

PRODUCT-DETAILS

## S203-K0.5NA

# S203-K0.5NA Miniature Circuit Breaker - 3+NP - K - 0.5 A



Extended Product Type	\$203-K0.5NA
Product ID	2CDS253103R0157
EAN	4016779532617
Catalog Description	S203-K0.5NA Miniature Circuit Breaker - 3+NP - K - 0.5 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 Design for Closing Resource Loops - Standard EN45555 - 87.8 %

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

Eco Transparency	
Environmental Product	9AKK108467A7832
Declaration - EPD	

Technical	
Standards	IEC/EN 60898- IEC/EN 60947-2 UL 107:
Tripping Characteristic	
Rated Operational	acc. to IEC 60898-1 400 V AC
Voltage	acc. to IEC 60898-1 400 \ acc. to IEC 60947-2 440 V AC
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 440 \
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	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
Rated Current (In)	0.5 A
Rated Short-Circuit Capacity	(AC) 6 kA (DC) 6 kA (400 V AC) 6 kA (400 V) 6 kA
Rated Ultimate Short- Circuit Breaking Capacity (I <sub>cu</sub> )	(230 V AC) 20 kA (400 V AC) 10 kA (440 V AC) 10 kA (230 V) 20 kA (400 V) 10 kA
Rated Conditional Short- Circuit Current (Inc)	(230 V) 20 kA (400 V) 10 kA
Rated Service Short- Circuit Breaking Capacity (I <sub>cs</sub> )	(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 50 60 Hz
Power Loss	4.4 W at Rated Operating Conditions per Pole 1.1 W
Power Supply Connection	Arbitrary
Contact Position Indication	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+N

End of Life Instructions

9AKK108468A3132

Overvoltage Category	III
Position of Neutral Terminals	Right
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 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
Wire Stripping Length	12.5 mm
Terminal Type	Screw Terminals

Material Compliance	
RoHS Information	2CDK403001D0607
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	0335
REACH Declaration	9AKK108468A9644
Conflict Minerals Reporting Template	9AKK108468A3363

Environmental	
Ambient Air	Operation -25 +55 °C
Temperature	Storage -40 +70 °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.	25g 2 shocks 13 ms
to IEC 60068-2-27	· ·

Technical UL/CSA	
Maximum Operating	110 V DC
Voltage UL/CSA	480Y / 277 V AC
Interrupting Rating acc.	(110 V DC) 10 kA
to UL1077	(277 V AC) 6 kA
	(480Y / 277 V AC) 6 kA

Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG
Tightening Torque UL/CSA	18 in-lb

Dimensions	
Width in Number of Modular Spacings	4
Product Net Width	70 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.5 kg
Pole Net Weight	0.125 kg
Built-In Depth (t <sub>2</sub> )	69 mm
Dimension Diagram	2CDC022007F0010

Ordering	
Package Level 1 Units	carton 1 piece
Package Level 1 Gross Weight	0.51 kg
E-Number (Finland)	3210924

Certificates and Declarations	
Certification Agency	EN IEC UL
Declaration of Conformity - CE	2CDK403001D0607
Declaration of Conformity - UKCA	9AKK108467A5053
I <sup>2</sup> t Characteristic	9AKK107992A5103

Installation	
Instructions and	2CDS207104P0002
Manuals	

Popular Downloads	
Data Sheet, Technical Information	9AKK107991A8329
I <sup>2</sup> t Characteristic	9AKK107992A5103

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	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

### **Categories**

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





