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PRODUCT-DETAILS

S803N-C10

S803N-C10 High Performance MCB



General Information	
Extended Product Type	\$803N-C10
Product ID	2CCS893001R0104
EAN	7612271204525
Catalog Description	S803N-C10 High Performance MCB
Long Description	The S803N-C10 is a 3-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 10 A. It is a current limiting device with a maximum breaking capacity of 36kA at 240/415V. It can be used for voltages up to 400/690V and in DC as well. It has two different tripping mechanisms, the thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. The S803N-C10 complies with IEC/EN 60898-1 and IEC/EN 60947-2 and allows the use for residential, commercial and industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S803N-C10 more comfortable. Due to the fast arc extinction of S803N-C10 your application will be secured.

Technical	
Standards	IEC/EN 60947-2, IEC/EN 60898-1
Tripping Characteristic	С
Type of Residual Current	Standard Version

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Maximum 230/400 V A Maximum 230/400 V A Minimum 12 V A Maximum 230/400 V A Minimum 12 V A Minimu	Rated Voltage (U _r)	acc. to IEC 60947-2 690 V AC acc. to IEC 60947-2 375 V DC acc. to IEC 60898-1 400 V AC
Operational Voltage Maximum 230/400 V A Minimum 12 V A Rated Insulation Voltage (Un) acc. to IEC/EN 60664-1 690 Rated Impulse 8 k Rated Impulse AC/D Rated Operational 10 Current (In) 10 Rated Short-Circuit (230 V) 20 k Capacity (400 V) 20 k Rated Short-Circuit (250 V) 4.5 k Capacity (In) (50 V) 4.5 k Rated Short-Circuit Freaking (50 V) 4.5 k Capacity (In) (50 V) 4.5 k Rated Short-Circuit Freaking (50 V) 4.5 k Capacity (In) (50 V) 4.5 k Rated Short-Circuit Freaking (50 V) 4.5 k Capacity (In) (50 V) 4.5 k Rated Service Short- (240 V) 415 V AC) 30 k Circuit Breaking (55 V AV AC) 15 k Circuit Breaking (55 V AV AC) 15 k Circuit Breaking (50 V AC) 3 k Circuit Breaking (50 V AC) 3 k Circuit Breaking (50 V AC) 3 k Contact Position (50 V AC) 3 k (15 V AC) 3 k Contact Position	Rated Operational Voltage	acc. to IEC 60898-1 400 V
Nated Impulse	Operational Voltage	Maximum 230/400 V AC Minimum 12 V AC
Withstand Voltage (Uimp) AC/D Input Voltage Type AC/D Rated Current (In) 10 Rated Operational (230 V) 20 k Current (Ie) (230 V) 20 k Rated Short-Circuit (230 V) 20 k Capacity (400 V) 20 k Rated Ultimate Short- (415 V) 36 k Circuit Breaking (690 V) 4.5 k Capacity (Ica) (240 / 415 V AC) 30 k Circuit Breaking (240 / 415 V AC) 30 k Capacity (Ica) (254 / 440 V AC) 15 k Capacity (Ica) (400 / 690 V AC) 34 k Capacity (Ica) (400 / 690 V AC) 34 k Capacity (Ica) (400 / 690 V AC) 34 k Capacity (Ica) (400 / 690 V AC) 34 k Capacity (Ica) (400 / 690 V AC) 34 k Capacity (Ica) (400 / 690 V AC) 34 k Capacity (Ica) (500 M AC) 34 k </td <td>Rated Insulation Voltage (U_i)</td> <td>acc. to IEC/EN 60664-1 690 V</td>	Rated Insulation Voltage (U _i)	acc. to IEC/EN 60664-1 690 V
AC/D Rated Current (In) 10 10 10 10 10 10 10 1	Rated Impulse Withstand Voltage (U _{imp})	8 kV
Rated Operational 10	Input Voltage Type	AC/DC
Current (I _E) (230 V) 20 k Rated Short-Circuit (230 V) 20 k Capacity (400 V) 20 k Rated Ultimate Short- (415 V) 36 k Circuit Breaking (690 V) 4.5 k Capacity (I _{CU}) (240 / 415 V AC) 30 k Rated Service Short- (240 / 495 V AC) 36 k Circuit Breaking (254 / 440 V AC) 15 k Capacity (I _{CS}) (400 / 690 V AC) 3 k Capacity (I _{CS}) (125 V DC) 20 k Frequency (f) 50 60 H Rated Frequency (f) 50 60 H Power Loss at Rated Operating Conditions per Pole 1.5 V Contact Position indication ON / OFF / TRI indication Electrical Endurance 10000 cycl Mechanical Endurance 10000 cycl Mechanical Endurance 10000 cycl Mechanical Endurance 3.5 Nr. Poles 3.1 indication Number of Poles 3.1 indication Overvoltage Category I Tightening Torque 3.5 Nr. Actuator Marking I / A Housing Material Insulation g	Rated Current (In)	10 A
Capacity (400 V) 20 k Rated Ultimate Short- (415 V) 36 k Capacity (Icu) (690 V) 4.5 k Rated Service Short- (240 / 415 V AC) 30 k Circuit Breaking (254 / 440 V AC) 15 k Capacity (Ics) (400 / 690 V AC) 34 k Capacity (Ics) (125 V DC) 20 k Frequency (f) 50 60 H Rated Frequency (f) 50 60 H Power Loss 4.5 V Contact Position ON / OFF / TRI Indication ON / OFF / TRI Electrical Endurance 10000 cycl Mechanical Endurance 10000 cycl Number of Protected Poles 10000 cycl Overvoltage Category I Tightening Torque 3.5 Nr Actuator Marking I Housing Material Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 Mounting Position An	Rated Operational Current (I _e)	10 A
Rated Ultimate Short- Circuit Breaking Capacity (Icu) Rated Service Short- Circuit Breaking Capacity (Ics) Rated Refequency (Ics) Rated Refequency (Ics) Rated Prequency (Ics) Rated Operating Conditions per Pole 1.5 of at Rated Operating Conditions per P	Rated Short-Circuit	(230 V) 20 kA
Circuit Breaking Capacity (Icu) (690 V) 4.5 k Capacity (Icu) (240 / 415 V AC) 30 k Circuit Breaking (254 / 440 V AC) 15 k Capacity (Ics) (400 / 690 V AC) 3 k Capacity (Ics) (125 V DC) 20 k Frequency (f) 50.60 H Rated Frequency (f) 50/60 H Power Loss 4.5 V Contact Position 0 N / 0FF / TRI Indication 0 N / 0FF / TRI Electrical Endurance 10000 cycl Mechanical Endurance 10000 cycl Number of Protected Poles 10000 cycl Number of Poles 3.5 Nr Overvoltage Category I Tightening Torque 3.5 Nr Release Type 3.1 in-l Actuator Marking 1 / 0 Housing Material Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 Mounting Position An	Capacity	(400 V) 20 kA
Rated Service Short- Circuit Breaking Capacity (I _{cs}) (254 / 440 V AC) 15 k Capacity (I _{cs}) (400 / 690 V AC) 3 k (252 V DC) 20 k Frequency (f) 50 60 H Rated Frequency (f) 60 60 H R	Circuit Breaking	(415 V) 36 kA (690 V) 4.5 kA
Capacity (Ics) (400 / 690 V AC) 3 k (125 V DC) 20 k Frequency (f) 50 60 H Rated Frequency (f) 50/60 H Power Loss at Rated Operating Conditions per Pole 1.5 t. Contact Position ON / OFF / TRI Indication ON / OFF / TRI Energy Limiting Class Electrical Endurance Mechanical Endurance 10000 cycl Number of Protected 10000 cycl Poles Number of Poles Overvoltage Category I Tightening Torque 3.5 Nr. 31 in-I Release Type Actuator Marking I / O Housing Material Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) ac	Rated Service Short-	(240 / 415 V AC) 30 kA
Rated Frequency (f) 50/60 H Power Loss 4.5 V at Rated Operating Conditions per Pole 1.5 V Contact Position ON / OFF / TRI Indication ON / ON / OFF / TRI Indication ON / ON	Circuit Breaking Capacity (I _{cs})	(254 / 440 V AC) 15 kA (400 / 690 V AC) 3 kA (125 V DC) 20 kA
Power Loss A 4.5 \ At Rated Operating Conditions per Pole 1.5 \ Contact Position Indication Energy Limiting Class Electrical Endurance Mechanical Endurance 10000 cycle Mechanical Endurance 10000 cycle Mechanical Endurance 10000 cycle Mumber of Protected Poles Number of Poles Overvoltage Category Ightening Torque 3.5 N-r 31 in-l Release Type Actuator Marking I / M Housing Material Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071	Frequency (f)	50 60 Hz
at Rated Operating Conditions per Pole 1.5 Note of the Contact Position Contact Poles Contact Position Contact Poles Contact Position Contact Poles Contact Position Contact Position Contact Poles Contact Position Contact Poles Contact Position Contact Position Contact Position Contact Position Contact Position Contact Position Contact Poles Contact Position Contact Poles Contact Position Contact Poles Con	Rated Frequency (f)	50/60 Hz
Contact Position Indication Energy Limiting Class Electrical Endurance Mechanical Endurance Mechanical Endurance Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque Release Type Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071	Power Loss	4.5 W
Indication Energy Limiting Class Electrical Endurance 10000 cycl Mechanical Endurance 10000 cycl Mechanical Endurance 10000 cycl Mumber of Protected Poles Number of Poles Overvoltage Category I Tightening Torque 3.5 N-r Release Type Actuator Marking Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 Mounting Position		
Electrical Endurance 10000 cycl Mechanical Endurance 10000 cycl Number of Protected Poles Number of Poles Overvoltage Category I Tightening Torque 3.5 N-r 31 in-l Release Type Actuator Marking I / O Housing Material Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 Mounting Position	Contact Position Indication	ON / OFF / TRIP
Mechanical Endurance Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N-r 31 in-l Release Type Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 Mounting Position An	Energy Limiting Class	3
Number of Protected Poles Number of Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N·r 31 in·l Release Type Actuator Marking Housing Material Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071	Electrical Endurance	10000 cycle
Poles Number of Poles Overvoltage Category It ghtening Torque 3.5 N.r 31 in-l Release Type Actuator Marking Housing Material Mounting on DIN Rail Mounting Position It gas a state of the s	Mechanical Endurance	10000 cycle
Overvoltage Category Tightening Torque 3.5 N-r 3.1 in-l Release Type Actuator Marking I / 0 Housing Material Mounting on DIN Rail Mounting On DIN Rail Mounting Position I H35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071	Number of Protected Poles	3
Tightening Torque 3.5 N-r 31 in-l Release Type Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071	Number of Poles	3
31 in-I Release Type Actuator Marking I / 0 Housing Material Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 Mounting Position	Overvoltage Category	IV
Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 Mounting Position	Tightening Torque	3.5 N⋅m 31 in⋅lb
Housing Material Insulation group I, RAL 703 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 Mounting Position An	Release Type	C
Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 Mounting Position An	Actuator Marking	1/0
TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 Mounting Position An	Housing Material	Insulation group I, 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
Recommended Screw Pozidriv	Mounting Position	Any
	Recommended Screw Driver	Pozidriv 2
Accessories Available Ye	Accessories Available	Yes
enclosure with cover Cage terminal with captive scree	Remarks	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
	Connecting Capacity	Flexible 0 50 mm² Rigid 0 70 mm²
Terminal Type Screw Terminal	Terminal Type	Screw Terminals

RoHS Information	9AKK107680A3903
	200000000000000000000000000000000000000

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RoHS Status	Following EU Directive 2011/65/EU
RoHS Date	20170426
Conflict Minerals	9AKK108468A3363
Reporting Template	
(CMRT)	

Environmental	
Ambient Temperature	-2560 °C
Ambient Air Temperature	Operation -25 60 °C
Reference Ambient Air Temperature	acc. to IEC60947-2 30 °C acc. to EN60898-1 30 °C
Degree of Protection	IP20
Pollution Degree	3
Resistance to Vibrations	1 mm 2 - 13.2 Hz 0.7g with Load 100% x le 13.2 - 100 Hz
Resistance to Shock acc. to IEC 60068-2-27	5 g 30 ms
Environmental Information	2CCY413207D0203

Dimensions	
Width in Number of Modular Spacings	4.5
Product Net Width	81 mm
Product Net Height	95 mm
Product Net Depth / Length	82.5 mm
Product Net Weight	735 g
Size	3 modules
Built-In Depth (t ₂)	82.5 mm
Dimension Diagram	2CCC413003C0201

Ordering	
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	770 g
E-Number (Sweden)	2101530

Certificates and Declarations	
Declaration of	2CCC005083D0202
Conformity - CE	

Installation	
Instructions and Manuals	2CCC413016M0008

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Popular Downloads	_
Data Sheet, Technical	9AKK108468A9560
Information	9AKK108468A9561
	9AKK108468A9562

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	85362020
eClass	V11.0 : 27141901
Object Classification Code	F

Categories

 $Low\ Voltage\ Products\ \rightarrow\ Modular\ DIN\ Rail\ Products\ \rightarrow\ High\ Performance\ Circuit\ Breakers\ HPCBs\ \rightarrow\ High\ Performance\ Circuit\ Breakers\ HPCBs$









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