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PRODUCT-DETAILS

## S803N-B13

## S803N-B13 High Performance MCB



General Information	
Extended Product Type	\$803N-B13
Product ID	2CCS893001R0135
EAN	7612271204051
Catalog Description	S803N-B13 High Performance MCB
Long Description	The S803N-B13 is a 3-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 6 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-B13 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-B13 more comfortable. Due to the fast arc extinction of S803N-B13 your application will be secured.

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

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Ditage   Perational Voltage   Perational P	Rated Voltage (U <sub>r</sub> )	acc. to IEC 60947-2 690 V AC acc. to IEC 60947-2 375 V DC acc. to IEC 60898-1 400 V AC
Minimum 12 V Ac acct or IEC/EN 60664-1 690 N acct or IEC/EN 60664-1 690 N ated Impulse tated Impulse this prouble ated Impulse this prouble ated Impulse this prouble ated Impulse this prouble with stand Voltage (Ulimp	Rated Operational Voltage	acc. to IEC 60898-1 400 V
	Operational Voltage	Maximum 230/400 V AC Minimum 12 V AC
intentand Voltage (Ump  put Voltage Type	Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 690 V
tated Current (In)  ated Operational  ated Operational  ated Short-Circuit	Rated Impulse Withstand Voltage (U <sub>imp</sub> )	8 kV
ated Operational urrent (I <sub>0</sub> )  ated Operational (230 V) 20 k# apacity (400 V) 20 k# apacity (690 V) 4.5 k# apacity (100 V) 4.5 k# apacity (10	Input Voltage Type	AC/DC
urrent (le)         (230 V) 20 kz           ated Short-Circuit         (230 V) 20 kz           apacity         (400 V) 20 kz           ated Ultimate Short-ircuit Breaking         (690 V) 4.5 kz           apacity (lc <sub>0</sub> )         (240 / 415 V AC) 30 kz           ated Service Short-ircuit Breaking         (254 / 440 V AC) 15 kz           (apacity (lc <sub>2</sub> )         (400 / 690 V AC) 3 kz           requency (f)         (525 V AC) 20 kz           ated Frequency (f)         50.60 Hz           ower Loss         at Rated Operating Conditions per Pole 2 Nz           ontact Position         ON / OFF / TRIF           dication         ON / OFF / TRIF           electrical Endurance         10000 cycle           electrical Endurance         10000 cycle           electrical Endurance         10000 cycle           umber of Poles         3           wervoltage Category         3           ightening Torque         3.5 Nm           sightening Torque         1.7 C           ousing Material         Insulation group I, RAL 703           lounting on DIN Rail         TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60712           outning Position         Any           eccommended Screw         Pozidrir a           cressories Av	Rated Current (In)	13 A
apacity         (400 V) 20 k²           ated Ultimate Short-         (415 V) 36 k²           incuit Breaking         (690 V) 4.5 k²           apacity (lcu)         (240 / 415 V AC) 30 k²           ated Service Short-         (240 / 415 V AC) 30 k²           incuit Breaking         (254 / 440 V AC) 15 k²           apacity (lcs)         (400 / 690 V AC) 3 k²           requency (f)         50 60 H²           ated Frequency (f)         50 60 H²           ower Loss         at Rated Operating Conditions per Pole 2 W           ontact Position         ON / OFF / TRIF           dictaction         ON / OFF / TRIF           idication         ON / OFF / TRIF           idication <td< td=""><td>Rated Operational Current (I<sub>e</sub>)</td><td>13 A</td></td<>	Rated Operational Current (I <sub>e</sub> )	13 A
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Indication Inergy Limiting Class Idectrical Endurance Induorance I	1 ower 2000	at Rated Operating Conditions per Pole 2 W
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umber of Protected oles  umber of Poles  vervoltage Category  ightening Torque  3.5 N-m 31 in-lk elease Type  ctuator Marking  ousing Material  lounting 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Counting Position  ecommended Screw river  ccessories Available  emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw onnecting Capacity  Flexible 0 70 mm Rigid 0 70 mm Rigid 0 70 mm	Electrical Endurance	10000 cycle
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revervoltage Category  ightening Torque  3.5 N-m 31 in-lt elease Type  ctuator Marking  ousing Material  lounting 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Idunting Position  ecommended Screw river  ccessories Available  emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw onnecting Capacity  Flexible 0 50 mm² Rigid 0 70 mm²	Number of Protected Poles	3
ightening Torque  3.5 N·m 31 in·lt elease Type  ctuator Marking  ousing Material  lounting 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Counting Position  ecommended Screw river  ccessories Available  emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw onnecting Capacity  Flexible 0 50 mm² Rigid 0 70 mm²	Number of Poles	3
31 in-lb elease Type  ctuator Marking  Ousing Material  Counting on DIN Rail  Ounting 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Counting Position  ecommended Screw river  ccessories Available  emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw  onnecting Capacity  Flexible 0 50 mm Rigid 0 70 mm	Overvoltage Category	IV
ctuator Marking  ousing Material  Insulation group I, RAL 7035  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  Insulation group I, RAL 7035  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  Any  ecommended Screw river  Ccessories Available  emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw onnecting Capacity  Flexible 0 50 mm Rigid 0 70 mm Rigid 0 70 mm	Tightening Torque	3.5 N⋅m 31 in⋅lb
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ecommended Screw river  ccessories Available emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw onnecting Capacity  Flexible 0 50 mm Rigid 0 70 mm	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
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enclosure with cover Cage terminal with captive screw onnecting Capacity Flexible 0 50 mm Rigid 0 70 mm	Accessories Available	Yes
Rigid 0 70 mm	Remarks	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
erminal Type Screw Terminals	Connecting Capacity	Flexible 0 50 mm² Rigid 0 70 mm²
Zi Geren Ferninan	Terminal Type	Screw Terminals

RoHS Information	9AKK107680A3903
	2CCC005083D0202

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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 <sub>2</sub> )	82.5 mm
Dimension Diagram	2CCC413003C0201

Ordering	
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	770 g

Certificates and Declarations	
Declaration of	2CCC005083D0202
Conformity - CE	

Installation	
Instructions and Manuals	2CCC413016M0008

## Popular Downloads

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Data Sheet, Technical Information

9AKK108468A9560 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

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





