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PRODUCT-DETAILS

S801N-B16

S801N-B16 High Performance MCB



General Information	
Extended Product Type	S801N-B16
Product ID	2CCS891001R0165
EAN	7612271203825
Catalog Description	S801N-B16 High Performance MCB
Long Description	The S801N-B16 is a 1-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 16 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 S801N-B16 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 S801N-B16 more comfortable. Due to the fast arc extinction of S801N-B16 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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Voltage Maximum 230/40 V Mainmum 12 V Rated Insulation Voltage (Uin) acc. to IEC/EN 60664-16 90 (Ui) Rated Impulse 8 Withstand Voltage (Uimp) 1 Input Voltage Type AC/Rated Current (In) 1 Rated Gurrent (In) 1 Rated Operational 2 230 V 20 V	Rated Voltage (U _r)	acc. to IEC 60947-2 400 V AC acc. to IEC 60947-2 125 V DC acc. to IEC 60898-1 230/400 V AC
Operational Voltage Maximum 230/400 V Minimum 12 V. Rated Insulation Voltage (Uiny) acc. to IEC/EN 60664-168 Rated Impulse 8 Withstand Voltage (Uing) 8 Input Voltage Type AC/I Rated Operational 1 Current (In) 1 Rated Short-Circuit (230 V) 20 Capacity Capacity (Incu) (400 V) 20 Capacity Rated Short-Circuit (Breaking) (400 V) 20 Capacity (Incu) Rated Service Short-Circuit (Breaking) (240 V) 36 Capacity (Incu) Rated Service Short-Circuit Breaking (240 V) 415 V AC) 30 Circuit Breaking Circuit Breaking (240 V) 45 Capacity (Incu) Rated Service Short-Circuit Breaking (240 V) 415 V AC) 30 Circuit Breaking Circuit Breaking (50 60 Capacity (Incu) Frequency (f) 50 60 Capacity (Incu) Power Loss 3 at Rated Operating Conditions probe (Incuit) Contact Position ON / OFF / Tindication Energy Limiting Class Incuiting Class Electrical Endurance 0 N/ OFF / Tindication Number of Poles 1 Number of Poles		acc. to IEC 60898-1 230 V
Rated Impulse		Maximum 230/400 V AC Minimum 12 V AC
Withstand Voltage (Uimp) AC/R Input Voltage Type AC/R Rated Current (In) 10 Rated Operational 11 Current (Ie) (230 V) 20 Rated Short-Circuit (230 V) 20 Capacity (400 V) 4.5 Capacity (Icu) (240 V) 36 Circuit Breaking (240 V) 4.5 V AC) 30 Circuit Breaking (254 V 440 V AC		acc. to IEC/EN 60664-1 690 V
Input Voltage Type AC/I Rated Current (In) 11 Rated Operational 11 Current (Ic) 11 Rated Short-Circuit (230 V) 20 Capacity (400 V) 20 Rated Ultimate Short- (240 V) 36 Circuit Breaking (400 V) 4.5 Capacity (Icu) (250 V) 4.5 Rated Service Short- (240 / 415 V AC) 30 Circuit Breaking (250 V AC) 30 Capacity (Ics) (400 / 690 V AC) 3 Capacity (Ics) (400 / 690 V AC) 3 Capacity (Ics) 50.60 Rated Frequency (f) 50.60 Power Loss 3 tracted Operating Conditions per Pole 3.1 Contact Position Indication 0 N / 0 FF / Till Indication Energy Limiting Class 10000 cy Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles 3.5 N Overvoltage Category 3.5 N Tightening Torque 3.5 N Release Type 4 Actuator Marking 1	Withstand Voltage (U _{imp}	8 kV
Rated Operational Current (le) State of Short-Circuit (230 V) 20 (230 V)		AC/DC
Current (Ie) Rated Short-Circuit (230 V) 20 Capacity (230 V) 20 Capacity (230 V) 20 Capacity (400 V) 20 Capacity (240 V) 36 Capacity (Icu) (240 V) 4.5 VAC 30 Capacity (Icu) (240 V) 4.5 VAC 30 Capacity (Icu) (240 V) 4.15 VAC 30 Capacity (Icu) (240 V) 4.15 VAC 30 Capacity (Icu) (240 V) 4.15 VAC 30 Capacity (Icu) (254 V) 440 VAC 30 Capacity (Icu) (254 VAC 3	Rated Current (In)	16 A
Capacity (400 V) 20 Rated Ultimate Short- (240 V) 36 Circuit Breaking (400 V) 4.5 Rated Service Short- (240 / 415 V AC) 30 Circuit Breaking (254 / 440 V AC) 15 Capacity (Ics) (400 / 690 V AC) 3 Capacity (Ics) (125 V DC) 20 Frequency (f) 5060 Rated Frequency (f) 5060 Power Loss 3.1 at Rated Operating Conditions per Pole 3.1 3.1 Contact Position Indication ON / OFF / Till Indication Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles 10000 cy Overvoltage Category 3.5 N Tightening Torque 3.5 N Actuator Marking 1 Housing Material Insulation group I, RAL 70 Mounting Material TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 600	·	16 A
Rated Ultimate Short- (240 V) 36 Circuit Breaking (400 V) 4.5 Capacity (I _{cu}) (240 / 415 V AC) 30 Rated Service Short- (240 / 415 V AC) 30 Circuit Breaking (254 / 440 V AC) 15 Capacity (I _{cs}) (400 / 690 V AC) 3 Frequency (f) 50.60 Power Loss 3.1 Contact Position ON / OFF / TI Indication ON / OFF / TI Indication ON / OFF / TI Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles 10000 cy Number of Poles 3.5 N Overvoltage Category 3.5 N Tightening Torque 3.5 N Actuator Marking 1/ Housing Material Insulation group, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600		(230 V) 20 kA
Circuit Breaking Capacity (Icu) (400 V) 4.5 Rated Service Short-Circuit Breaking (240 / 415 V AC) 30 Circuit Breaking (254 / 440 V AC) 15 Capacity (Ics) (400 / 690 V AC) 3 (125 V DC) 20 Frequency (f) 50 60 Rated Frequency (f) 50 / 60 Power Loss 3.1 at Rated Operating Conditions per Pole 3.1 Contact Position Indication ON / OFF / Till Indication Energy Limiting Class Electrical Endurance Mechanical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles 3.5 N Overvoltage Category 3.5 N Tightening Torque 3.5 N Release Type 4 Actuator Marking Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35		(400 V) 20 kA
Rated Service Short- (240 / 415 V AC) 30 Circuit Breaking (254 / 440 V AC) 15 Capacity (Ics) (400 / 690 V AC) 3 Frequency (f) 50 60 Rated Frequency (f) 50/60 Power Loss 3.1 at Rated Operating Conditions per Pole 3.1 ON / OFF / Till Indication Energy Limiting Class Electrical Endurance Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles Overvoltage Category 3.5 N Tightening Torque 3.5 N Release Type 3.5 N Actuator Marking 1/4 Housing Material Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600	Circuit Breaking	(240 V) 36 kA (400 V) 4.5 kA
Circuit Breaking (254 / 440 V AC) 15 Capacity (Ics) (400 / 690 V AC) 3 (125 V DC) 20 (125 V DC) 20 Frequency (f) 5060 Rated Frequency (f) 50/60 Power Loss 3.1 at Rated Operating Conditions per Pole 3.1 ON / OFF / Till Indication Energy Limiting Class Electrical Endurance Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected 90les Number of Poles 3.5 N Overvoltage Category 3.5 N Tightening Torque 3.5 N Release Type Actuator Marking 1/ Housing Material Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 600		(240 / 415 V AC) 30 kA
Rated Frequency (f) 50/60 Power Loss 3.1 at Rated Operating Conditions per Pole 3.1 Contact Position ON / OFF / Telegrater Indication Energy Limiting Class Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N 31 in Release Type Actuator Marking Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607		(254 / 440 V AC) 15 kA (400 / 690 V AC) 3 kA (125 V DC) 20 kA
Power Loss at Rated Operating Conditions per Pole 3.1 Contact Position ON / OFF / To Indication Energy Limiting Class Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N 31 in Release Type Actuator Marking Housing Material Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Frequency (f)	50 60 Hz
Contact Position ON / OFF / Te Indication ON /	Rated Frequency (f)	50/60 Hz
Contact Position ON / OFF / To Indication Energy Limiting Class Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N Release Type Actuator Marking Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 600 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc.	Power Loss	3.1 W
Indication Energy Limiting Class Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N 31 in Release Type Actuator Marking Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607		
Electrical Endurance 10000 cy Mechanical Endurance 10000 cy Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N 31 in Release Type Actuator Marking Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607		ON / OFF / TRIP
Mechanical Endurance Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N 31 in Release Type Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Energy Limiting Class	3
Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N 31 in Release Type Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Electrical Endurance	10000 cycle
Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N 31 in Release Type Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Mechanical Endurance	10000 cycle
Overvoltage Category Tightening Torque 3.5 N 31 in Release Type Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607		1
Tightening Torque 3.5 N 31 in Release Type Actuator Marking Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Number of Poles	1
Release Type Actuator Marking Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Overvoltage Category	IV
Actuator Marking Housing Material Insulation group I, RAL 70 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Tightening Torque	3.5 N⋅m 31 in⋅lb
Housing Material Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Release Type	В
Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 607 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Actuator Marking	1/0
TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 607	Housing Material	Insulation group I, RAL 7035
Mounting Position	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 Pozidri Driver		Pozidriv 2
Accessories Available Y	Accessories Available	Yes
enclosure with cover Cage terminal with captive scr	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 Termin	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	1.5
Product Net Width	27 mm
Product Net Height	95 mm
Product Net Depth / Length	82.5 mm
Product Net Weight	245 g
Size	1 module
Built-In Depth (t ₂)	82.5 mm
Dimension Diagram	2CCC413003C0201

Ordering	
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	270 g

Certificates and Declarations	
Declaration of	2CCC005083D0202
Conformity - CE	

Installation	
Instructions and	2CCC413016M0008
Manuals	

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

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





