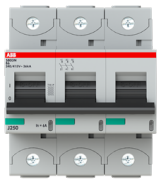
PRODUCT-DETAILS

S803N-B6

S803N-B6 High Performance MCB



General Information

Extended Product Type	S803N-B6
Product ID	2CCS893001R0065
EAN	7612271408442
Catalog Description	S803N-B6 High Performance MCB
Long Description	The S803N-B6 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-B6 complies with IEC/EN 60947-2 and allows the use for industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S803N-B6 more comfortable. Due to the fast arc extinction of S803N-B6 your application will be secured.

Technical

Standards	IEC/EN 60947-2 IEC/EN 60898-1
Tripping Characteristic	B

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Rated Operational Voltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 690 V AC
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 690 V
Rated Impulse Withstand Voltage (U_{imp})	8 kV
Input Voltage Type	AC/DC
Rated Current (I_n)	6 A
Rated Short-Circuit Capacity	(400 V AC) 20 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(415 V AC) 36 kA (440 V AC) 20 kA (500 V AC) 10 kA (690 V AC) 4.5 kA (375 V DC) 20 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(415 V AC) 30 kA (440 V AC) 15 kA (500 V AC) 8 kA (690 V AC) 3 kA (375 V DC) 20 kA
Frequency (f)	50...60 Hz
Rated Frequency (f)	50/60 Hz
Power Loss	5.4 W at Rated Operating Conditions per Pole 1.8 W
Contact Position Indication	ON / OFF / TRIP
Energy Limiting Class	3
Electrical Endurance	10000 cycle
Mechanical Endurance	10000 cycle
Number of Protected Poles	3
Number of Poles	3
Overvoltage Category	IV
Tightening Torque	3.5 N·m 31 in·lb
Release Type	B
Actuator Marking	I / O
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
Mounting Position	Any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
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 Terminals

Material Compliance

RoHS Information	9AKK107680A3903 2CCC005083D0202
RoHS Status	Following EU Directive 2011/65/EU
RoHS Date	20170426
REACH Declaration	9AKK108469A6125
REACH Information	No data - If REACH inform is not yet available for a certain product

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REACH Date	20190320
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental

Ambient Air Temperature	Operation -25 ... +60 °C Storage -40 ... +70 °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 Ie 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
Built-In Depth (t_2)	82.5 mm

Ordering

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

Certificates and Declarations

CB Certificate	2CCC413027D0201
CCC Certificate	CQC2007010307228826
Declaration of Conformity - CE	2CCC005083D0202
ESTI Certificate	9AKK107680A0846
KC Certificate	9AKK107680A0932
VDE Certificate	2CCC413039D0601

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 and Systems → Modular DIN Rail Products → High Performance Circuit Breakers HPCBs → High Performance Circuit Breakers HPCBs





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