

PRODUCT-DETAILS

S803N-B50 S803N-B50 High Performance MCB



Genera	Inform	ation

Extended Product Type	S803N-B50
Product ID	2CCS893001R0505
EAN	7612271204112
Catalog Description	S803N-B50 High Performance MCB

Long Description

The S803N-B50 is a 3-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 50 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-B50 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-B50 more comfortable. Due to the fast arc extinction of S803N-B50 your application will be

Technical

Standards	IEC/EN 60947-2, IEC/EN 60898-1
Tripping Characteristic	В
Type of Residual Current	standard version
Rated Voltage (U _r)	acc. to IEC 60947-2 690 V AC

acc. to IEC 60947-2 690 V AC acc. to IEC 60947-2 375 V DC

		acc. to IEC 60898-1 400 V AC
Rated Operational Voltage		acc. to IEC 60898-1 400 V
Operational Voltage	Maximum 230/400 V AC Minimum 12 V AC	
Rated Insulation Voltage $(U_{\rm j})$	acc. to IEC/EN 60664-1 690 \	
Rated Impulse Withstand Voltage (U _{imp})		8 kV
Input Voltage Type		AC/DC
Rated Current (I _n)		50 A
Rated Operational Current (I _e)		50 A
Rated Short-Circuit Capacity	(230 V) 20 kA (400 V) 20 kA	
Rated Ultimate Short- Circuit Breaking Capacity (I _{cu})	(230 V) 36 kA (400 V) 4.5 kA	
Rated Conditional Short- Circuit Current (I _{nc})		(230 V) 36 kA (400 V) 36 kA
Rated Service Short- Circuit Breaking Capacity (I _{cs})		(240 / 415 V AC) 30 kA (254 / 440 V AC) 15 kA (400 / 690 V AC) 3 kA (125 V DC) 20 kA
Frequency (f)		50 60 Hz
Rated Frequency (f)	50/60 Hz	
Power Loss	12.9 W at Rated Operating Conditions per Pole 4.3 W	
Contact Position Indication		ON / OFF / TRIP
Energy Limiting Class		3
Electrical Endurance		6000 cycle
Mechanical Endurance		4000 cycle
Number of Poles	3	
Number of Protected Poles		3
Overvoltage Category		IV
Fightening Torque	3.5 N·n 31 in·ll	
Release Type	В	
Actuator Marking	1/0	
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
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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 acc. to IEC 60068-2-6	2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x le
Resistance to Shock acc. to IEC 60068-2-27	5 g 30 ms
RoHS Status	Following EU Directive 2011/65/EU
RoHS Information	9AKK107680A3903 2CCC005083D0202
Environmental Information	2CCY413207D0203
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
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	
Minimum Order Quantity	1 piece
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	770 g
Certificates and Declarations	
Declaration of Conformity - CE	2CCC005083D0202
Installation	
Instructions and Manuals	2CCC413016M0008
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Data Sheet, Technical 2CCC413003C0208 Information 2CCC413003C0208

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

 $Low\ Voltage\ Products\ and\ Systems\ \to\ Modular\ DIN\ Rail\ Products\ \to\ High\ Performance\ Circuit\ Breakers\ HPCBs\ \to\ High\ Performance\ Circuit\ Breakers\ HPCBs$





