PRODUCT-DETAILS

S803C-C32

S803C-C32 High Performance MCB



General Information

Extended Product Type:	S803C-C32
Product ID:	2CCS883001R0324
EAN:	7612271212940
Catalog Description:	S803C-C32 High Performance MCB
Long Description:	The S803C-C32 is a 3-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 32 A. It is a current limiting device with a maximum breaking capacity of 25kA at 240/415V. It can be used for voltages up to 254/440V 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 S803C-C32 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 S803C-C32 more comfortable. Due to the fast arc extinction of S803C-C32 your application will be secured.
Display Name:	S803C-C32

ABB EcoSolutions

ABB EcoSolutions Profile:	9AKK108471A1082

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Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 86.29 %
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill
End Of Life Disassembling Instructions:	9AKK108470A2575
Environmental Product Declaration - EPD:	9AKK108470A1695 9AKK108470A1696

Technical

Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(415 V AC) 25 kA (440 V AC) 15 kA (375 V DC) 10 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(415 V AC) 25 kA (440 V AC) 10 kA (375 V DC) 10 kA
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:	3P
Tightening Torque:	3.5 N·m 31 in·lb
Release Type:	C
Actuator Marking:	I / O
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

Electrical

Tripping Characteristic:	C
Rated Operational Voltage:	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 415 V AC
Operational Voltage:	Maximum 230/400 V AC Minimum 12 V AC
Rated Insulation Voltage (U_i):	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand Voltage (U_{imp}):	8 kV
Input Voltage Type:	AC/DC
Rated Current (I_n):	32 A
Rated Short-Circuit Capacity:	(400 V AC) 15 kA

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Frequency (f):	50 / 60 Hz
Rated Frequency (f):	50/60 Hz
Power Loss:	Total 9.6 W at Rated Operating Conditions per Pole 3.2 W
Overvoltage Category:	IV

Design

Housing Material:	Insulation group I, RAL 7035

Technical UL/CSA

Interrupting Rating acc. to UL1077:	(480Y / 277 V AC) 10 kA (375 V DC) 10 kA

Material Compliance

RoHS Declaration:	2CCC005083D0202
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date:	20211214
REACH Declaration:	9AKK108470A9089
REACH Information:	False - does not contain substances > 0.1 mass percentage
REACH Date:	20250313
Conflict Minerals Reporting Template (CMRT):	9AKK108468A3363
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B:	Business To Business

Environmental

Ambient Air Temperature:	Operation -40 ... 70 °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

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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
Dimension Diagram:	2CCC413003C0201

Engineering

EPLAN Data:	9AAC210421_EPLAN

Ordering

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

Certificates and Declarations

CB Certificate:	9AKK107680A0835 2CCC413029D0202
CCC Certificate:	CQC2014010307713173
Declaration of Conformity - CE:	2CCC005083D0202
ESTI Certificate:	2CCC413028D0101
UL Certificate:	9AKK107680A2286
VDE Certificate:	2CCC413039D0601

Installation

Instructions and Manuals:	2CCC413016M0008
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

Popular Downloads

Data Sheet, Technical Information:	9AKK108468A9560 9AKK108468A9561 9AKK108468A9562

External Classifications and Standards

ETIM 9:	EC000042 - Miniature circuit breaker (MCB)

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ETIM 10:	EC000042 - Miniature circuit breaker (MCB)
UNSPSC:	39121603
eClass:	V11.0 : 27141901
IDEA Granular Category Code (IGCC):	4899 >> Miniature circuit breaker (MCB) screw-in model
Object Classification Code:	F
Standards:	IEC/EN 60947-2 IEC/EN 60898-1 UL 1077

Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > High Performance Circuit Breakers HPCBs > High Performance Circuit Breakers HPCBs - S800







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