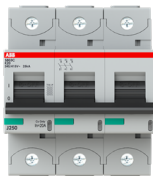




 PRODUCT-DETAILS

S803C-K20

S803C-K20 High Performance MCB



General Information

Extended Product Type	S803C-K20
Product ID	2CCS883001R0487
EAN	7612271212704
Catalog Description	S803C-K20 High Performance MCB

Long Description	<p>The S803C-K20 is a 3-pole High Performance Circuit breaker with K-Characteristic, with cage terminal and a rated current of 20 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-K20 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-K20 more comfortable. Due to the fast arc extinction of S803C-K20 your application will be secured.</p>
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ABB EcoSolutions

ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108471A1082
Recyclability Rate of the	Design for Closing Resource Loops - Standard EN45555 - 86.29 %

Product acc. to EN45555	
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	K
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 mm ² Rigid 0 ... 70 mm ²
Terminal Type	Screw Terminals

Electrical

Tripping Characteristic	K
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)	20 A
Rated Short-Circuit Capacity	(400 V AC) 15 kA
Frequency (f)	50 / 60 Hz
Rated Frequency (f)	50/60 Hz
Power Loss	Total 10.5 W at Rated Operating Conditions per Pole 3.5 W

Overvoltage Category

IV

Design

Housing Material

Insulation group I, RAL 7035

Technical UL/CSA

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

Material Compliance

RoHS Declaration

2CCCC005083D0202

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
TemperatureOperation -40 ... 70 °C
Storage -40 ... 70 °CReference Ambient Air
Temperatureacc. to IEC60947-2 40 °C
acc. to EN60898-1 40 °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 HzResistance to Shock acc.
to IEC 60068-2-275 g
30 msEnvironmental
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 (t₂)

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
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External Classifications and Standards

ETIM 9	EC000042 - Miniature circuit breaker (MCB)
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

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

