

S803S-D20



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

General Information

Extended Product Type:	S803S-D20
Product ID:	2CCS863001R0201
EAN:	7612271201234
Catalog Description:	S803S-D20
Long Description:	The S803S-D20 is a 3-pole High Performance Circuit breaker with D-Characteristic, with cage terminal and a rated current of 20 A. It is a current limiting device with a maximum breaking capacity of 50kA 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 S803S-D20 complies with IEC/EN 60898-1 and IEC/EN 60947-2 and allows the use for residential, commercial and industrial applications. It has numerous approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S803S-D20 more comfortable. Due to the fast arc extinction of S803S-D20 your application will be secured.

Additional Information

ABB Industrial IT Suite:	Control IT
Ambient Air Temperature:	Operation -25 ... +60 °C Storage -40 ... +70 °C
Connecting Capacity:	Stranded 1 ... 50 mm ² Flexible 1 ... 70 mm ²
Contact Position Indication:	ON / OFF / TRIP
Country of Origin:	Switzerland (CH)
Customs Tariff Number:	85362020
Data Sheet, Technical Information:	2CCC413003C0203
Declaration of Conformity - CE:	2CCC413016D060
Degree of Protection:	acc. to IEC 60529 IP20
Dimension Diagram:	2CCC413003C0201
EAN:	7612271201234
EPLAN Catalog Tree:	Electrical engineering / Protection devices / General
ETIM 4:	EC000042 - Miniature circuit breaker (MCB)
ETIM 5:	EC000042 - Miniature circuit breaker (MCB)
ETIM 6:	EC000042 - Miniature circuit breaker (MCB)
Electrical Endurance:	10000 cycle
Energy Limiting Class:	3
Environmental Conditions:	Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle Damp Heat Cyclic acc. to IEC 60068-2-30 55°C @ 90-96% Damp Heat Cyclic acc. to IEC 60068-2-30 25°C @ 90-100% Dry Heat Test B acc. to IEC 60068-2-2 16 hour @ 55 °C Dry Heat Test B acc. to IEC 60068-2-2 2 hour @ 70 °C
Environmental Information:	2CCY413207D0202
Frequency (f):	50 ... 60 Hz
Housing Material:	Insulation group I, RAL 7035
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	2CCC413016M0004
Invoice Description:	S803S-D20
Mechanical Endurance:	10000 cycle
Minimum Order Quantity:	1 piece

Mounting Position:	Any
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
Number of Poles:	3
Object Classification Code:	F
Operational Voltage:	Maximum 230/400 V AC Minimum 12 V AC
Overvoltage Category:	IV
Package Level 1 EAN:	7612271201234
Package Level 1 Gross Weight:	770 g
Package Level 1 Height:	99 mm
Package Level 1 Length:	86 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	105 mm
Package Level 2 Units:	1
Pollution Degree:	3
Power Loss:	at Rated Operating Conditions per Pole 4.3 W
Product Depth:	88 mm
Product Main Type:	S800S
Product Name:	High Performance MCB
Product Net Depth:	82.5 mm
Product Net Height:	95 mm
Product Net Length:	81 mm
Product Net Weight:	0.74 kg
Product Net Width:	81 mm
Rated Current (I_n):	20 A
Rated Frequency (f):	50 / 60 Hz
Rated Impulse Withstand Voltage (U_{imp}):	8 kV
Rated Insulation Voltage (U_i):	690 V AC
Rated Operational Current (I_e):	20 A
Rated Operational Voltage:	400/690 V AC 375 V DC
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(240 / 415 V AC) 40 kA (254 / 440 V AC) 22.5 kA (400 / 690 V AC) 4 kA (125 V DC) 30 kA
Rated Short-Circuit Capacity (I_{cn}):	(230 / 400 V AC) 25 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(240 / 415 V AC) 50 kA (254 / 440 V AC) 30 kA (400 / 690 V AC) 6 kA (125 V DC) 30 kA
Rated Voltage (U_r):	230 V
Recommended Screw Driver:	Pozidriv 2
Reference Ambient Air Temperature:	acc. to IEC60947-2 30 °C acc. to EN60898-1 30 °C
Remarks:	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
Resistance to Vibrations acc. to IEC 60068-2-6:	2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x I_e
RoHS Information:	2CCC413008D0204

RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Selling Unit of Measure:	piece
Short Description:	S803S-D20 High Performance Circuit Breaker - S800S - Number of poles 3 - Tripping characteristic D - Rated current 20A - Cage terminal
Size:	3 modules
Standards:	IEC/EN 60947-2 IEC/EN 60898-1
Terminal Type:	Screw Terminals
Tightening Torque:	3.5 N·m 31 in·lb
Tripping Characteristic:	D
Type of Residual Current:	standard version
Actuator Marking:	I / O

