S801S-C80

ABB

General Information

Extended Product Type:	S801S-C80
Product ID:	2CCS861001R0804
EAN:	7612271200572
Catalog Description:	S801S-C80 High Performance MCB
Long Description:	The S801S-C80 is a 1-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 80 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 S801S-C80 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 S801S-C80 more comfortable. Due to the fast arc extinction of S801S-C80 your application will be secured.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362020

Popular Downloads

Data Sheet, Technical Information:	2CCC413003C0203
Instructions and Manuals:	2CCC413016M0004
Dimension Diagram:	2CCC413003C0201

Dimensions

Product Net Width:	27 mm
Product Net Depth:	82.5 mm
Product Net Height:	95 mm
Product Net Weight:	245 g

Technical

Standards:	IEC/EN 60947-2 IEC/EN 60898-1
Number of Poles:	1
Tripping Characteristic:	C
Rated Current (I_n):	80 A

Rated Operational Voltage:	400/690 V AC
	125 V DC
Power Loss:	at Rated Operating Conditions per Pole 6.4 W
Rated Insulation Voltage (U_i):	690 V AC
Operational Voltage:	Maximum 230/400 V AC
	Minimum 12 V AC
Rated Frequency (f):	50 / 60 Hz
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 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
Energy Limiting Class:	3
Overvoltage Category:	IV
Pollution Degree:	3
Rated Impulse Withstand Voltage (U_{imp}):	8 kV
Housing Material:	Insulation group I, RAL 7035
Contact Position Indication:	ON / OFF / TRIP
Degree of Protection:	acc. to IEC 60529 IP20
Remarks:	Connection from top and bottom
	Connecting with CU only
	IP40 in enclosure with cover
	Cage terminal with captive screw
Electrical Endurance:	6000 cycle
Mechanical Endurance (N_{endu}):	4000 cycle
Terminal Type:	Screw Terminals
Connecting Capacity:	Stranded 1 ... 50 mm²
	Flexible 1 ... 70 mm²
Tightening Torque:	3.5 N·m
	31 in·lb
Recommended Screw Driver:	Pozidriv 2
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

Environmental

| Ambient Air Temperature: | Operation -25 ... +60 °C |
| | Storage -40 ... +70 °C |

Resistance to Vibrations acc. to IEC 60068-2-6:	2 - 13.2 Hz / 1mm
	13.2 - 100Hz / 0.7g
	with load 100% x Ie

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

| RoHS Status: | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Certificates and Declarations (Document Number)

Declaration of Conformity - CE:	2CCC413016D060
Environmental Information:	2CCY413207D0202
Instructions and Manuals:	2CCC413016M0004
RoHS Information:	2CCC413008D0206

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	105 mm
Package Level 1 Length:	33 mm
Package Level 1 Height:	99 mm
Package Level 1 Gross Weight:	270 g
Package Level 1 EAN:	7612271200572
Package Level 2 Units:	1

Classifications

Object Classification Code:	F
E-nummer:	2101554
ETIM 4:	EC000042 - Miniature circuit breaker (MCB)
ETIM 5:	EC000042 - Miniature circuit breaker (MCB)
ETIM 6:	EC000042 - Miniature circuit breaker (MCB)
ETIM 7:	EC000042 - Miniature circuit breaker (MCB)