

PRODUCT-DETAILS

# S801C-C80

## S801C-C80 High Performance MCB



### General Information

Extended Product Type	S801C-C80
Product ID	2CCS881001R0804
EAN	7612271213565
Catalog Description	S801C-C80 High Performance MCB

Long Description	<p>The S801C-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 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 S801C-C80 complies with IEC/EN 60898-1 and 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 S801C-C80 more comfortable. Due to the fast arc extinction of S801C-C80 your application will be secured.</p>
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### Technical

Standards	IEC/EN 60947-2, IEC/EN 60898-1, UL 1077
Tripping Characteristic	C
Rated Voltage (U <sub>r</sub> )	acc. to IEC 60947-2 254 V AC acc. to IEC 60947-2 125 V DC acc. to IEC 60898-1 230/400 V AC
Rated Operational Voltage	acc. to IEC 60947-2 254 V AC acc. to IEC 60947-2 125 V DC acc. to IEC 60898-1 230/400 V AC
Operational Voltage	Maximum 230/400 V AC Minimum 12 V AC

Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	8 kV
Input Voltage Type	AC/DC
Rated Current (I <sub>n</sub> )	80 A
Rated Operational Current (I <sub>e</sub> )	80 A
Rated Short-Circuit Capacity (I <sub>cn</sub> )	(400 V) 15 kA (230 V) 15 kA
Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )	(240 / 415 V AC) 25 kA (254 / 440 V AC) 15 kA (125 V DC) 10 kA (230 V) 25 kA (400 V) 25 kA
Rated Conditional Short-Circuit Current (I <sub>nc</sub> )	(230 V) 25 kA (400 V) 25 kA
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )	(240 / 415 V AC) 18 kA (254 / 440 V AC) 10 kA (125 V DC) 10 kA
Frequency (f)	50 / 60 Hz
Rated Frequency (f)	50...60 Hz
Power Loss	6.4 W at Rated Operating Conditions per Pole 6.4 W
Contact Position Indication	ON / OFF / TRIP
Energy Limiting Class	3
Electrical Endurance	6000 cycle 4000 cycle
Number of Poles	1
Number of Protected Poles	1
Overvoltage Category	IV
Tightening Torque	3.5 N·m 31 in·lb
Release Type	C
Actuator Marking	I / O
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	Rigid 0 ... 50 mm <sup>2</sup> Flexible 0 ... 70 mm <sup>2</sup>
Terminal Type	Screw Terminals

## Environmental

Ambient Temperature	-25...60 °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 I <sub>e</sub>

Resistance to Shock acc. to IEC 60068-2-27	5 g 30 ms
RoHS Status	Following EU Directive 2011/65/EU
Environmental Information	2CCY413207D0203

## Technical UL/CSA

Interrupting Rating acc. to UL1077	(240 V AC) 20 kA (347 V AC) 10 kA (125 V DC) 10 kA
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## Dimensions

Width in Number of Modular Spacings	1.5
Product Net Width	27 mm
Product Net Height	95 mm
Product Net Depth / Length	82.5 mm
Product Net Weight	245 g
Product Net Length	27 mm
Built-In Depth (t <sub>2</sub> )	82.5 mm

## Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	105 mm
Package Level 1 Height	99 mm
Package Level 1 Depth / Length	33 mm
Package Level 1 Gross Weight	270 g
Package Level 1 EAN	7612271213565

## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362090
Country of Origin	Switzerland (CH)

## Certificates and Declarations (Document Number)

Declaration of Conformity - CE	2CCC005083D0202
Environmental Information	2CCY413207D0203
Instructions and Manuals	2CCC413016M0008
RoHS Information	9AKK107680A3903 2CCC005083D0202

## Popular Downloads

Data Sheet, Technical Information	2CCC413003C0208
Instructions and	2CCC413016M0008

Manuals

Dimension Diagram

2CCC413003C0201

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## Classifications

ETIM 7	EC000042 - Miniature circuit breaker (MCB)
ETIM 8	EC000042 - Miniature circuit breaker (MCB)
EPLAN Catalog Tree	Electrical engineering / Protection devices / General
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

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## Categories

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

