

# S803N-D80



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

## General Information

<b>Extended Product Type:</b>	S803N-D80
<b>Product ID:</b>	2CCS893001R0801
<b>EAN:</b>	7612271205096
<b>Catalog Description:</b>	S803N-D80 High Performance MCB
<b>Long Description:</b>	<p>The S803N-D80 is a 3-pole High Performance Circuit breaker with D-Characteristic, with cage terminal and a rated current of 80 A. It is a current limiting device with a maximum breaking capacity of 36kA 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 S803N-D80 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 S803N-D80 more comfortable. Due to the fast arc extinction of S803N-D80 your application will be secured.</p>

## Ordering

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85362020

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	2CCC413003C0203
<b>Instructions and Manuals:</b>	2CCC413016M0004
<b>Dimension Diagram:</b>	2CCC413003C0201

## Dimensions

<b>Product Net Width:</b>	81 mm
<b>Product Net Depth:</b>	82.5 mm
<b>Product Net Height:</b>	95 mm
<b>Product Net Weight:</b>	735 g

## Technical

<b>Standards:</b>	IEC/EN 60947-2 IEC/EN 60898-1
<b>Number of Poles:</b>	3
<b>Tripping Characteristic:</b>	D
<b>Rated Current (I<sub>n</sub>):</b>	80 A

<b>Rated Operational Voltage:</b>	400/690 V AC 375 V DC
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 6.4 W
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	690 V AC
<b>Operational Voltage:</b>	Maximum 230/400 V AC Minimum 12 V AC
<b>Rated Frequency (f):</b>	50 / 60 Hz
<b>Rated Short-Circuit Capacity (I<sub>cn</sub>):</b>	(230 / 400 V AC) 20 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b>	(240 / 415 V AC) 36 kA (254 / 440 V AC) 20 kA (400 / 690 V AC) 4.5 kA (375 V DC) 20 kA
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	(240 / 415 V AC) 30 kA (254 / 440 V AC) 15 kA (400 / 690 V AC) 3 kA (125 V DC) 20 kA
<b>Energy Limiting Class:</b>	3
<b>Overvoltage Category:</b>	IV
<b>Pollution Degree:</b>	3
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	8 kV
<b>Housing Material:</b>	Insulation group I, RAL 7035
<b>Contact Position Indication:</b>	ON / OFF / TRIP
<b>Degree of Protection:</b>	acc. to IEC 60529 IP20
<b>Remarks:</b>	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
<b>Electrical Endurance:</b>	6000 cycle
<b>Mechanical Endurance (N<sub>endu</sub>):</b>	4000 cycle
<b>Terminal Type:</b>	Screw Terminals
<b>Connecting Capacity:</b>	Stranded 1 ... 50 mm <sup>2</sup> Flexible 1 ... 70 mm <sup>2</sup>
<b>Tightening Torque:</b>	3.5 N·m 31 in·lb
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Mounting on DIN Rail:</b>	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
<b>Mounting Position:</b>	Any

## Environmental

<b>Ambient Air Temperature:</b>	Operation -25 ... +60 °C Storage -40 ... +70 °C
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	5 g 30 ms
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x Ie
<b>Environmental Conditions:</b>	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
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Certificates and Declarations (Document Number)

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

## Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	105 mm
<b>Package Level 1 Length:</b>	86 mm
<b>Package Level 1 Height:</b>	99 mm
<b>Package Level 1 Gross Weight:</b>	770 g
<b>Package Level 1 EAN:</b>	7612271205096
<b>Package Level 2 Units:</b>	1

## Classifications

<b>Object Classification Code:</b>	F
<b>ETIM 4:</b>	EC000042 - Miniature circuit breaker (MCB)
<b>ETIM 5:</b>	EC000042 - Miniature circuit breaker (MCB)
<b>ETIM 6:</b>	EC000042 - Miniature circuit breaker (MCB)
<b>ETIM 7:</b>	EC000042 - Miniature circuit breaker (MCB)

