

S803N-B100



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

General Information

| | |
|-------------------------------|--|
| Extended Product Type: | S803N-B100 |
| Product ID: | 2CCS893001R0825 |
| EAN: | 7612271204143 |
| Catalog Description: | S803N-B100 High Performance MCB |
| Long Description: | <p>The S803N-B100 is a 3-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 100 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-B100 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-B100 more comfortable. Due to the fast arc extinction of S803N-B100 your application will be secured.</p> |

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: | 81 mm |
| Product Net Depth: | 82.5 mm |
| Product Net Height: | 95 mm |
| Product Net Weight: | 735 g |

Technical

| | |
|---------------------------------------|----------------|
| Standards: | IEC/EN 60947-2 |
| Number of Poles: | 3 |
| Tripping Characteristic: | B |
| Rated Current (I_n): | 100 A |

| | |
|---|---|
| Rated Operational Voltage: | 400/690 V AC 375 V DC |
| Power Loss: | at Rated Operating Conditions per Pole 8 W |
| Rated Insulation Voltage (U_i): | 690 V AC |
| Rated Frequency (f): | 50 / 60 Hz |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}): | (240 / 415 V AC) 36 kA (254 / 440 V AC) 20 kA (400 / 690 V AC) 4.5 kA (375 V DC) 20 kA |
| Rated Service Short-Circuit Breaking Capacity (I_{cs}): | (240 / 415 V AC) 30 kA (254 / 440 V AC) 10 kA (400 / 690 V AC) 3 kA (125 V DC) 20 kA |
| 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 mm ² Flexible 1 ... 70 mm ² |
| 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 Shock acc. to IEC 60068-2-27: | 5 g 30 ms |

| | |
|--|---|
| Resistance to Vibrations acc. to IEC 60068-2-6: | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x le |
| 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: | 86 mm |
| Package Level 1 Height: | 99 mm |
| Package Level 1 Gross Weight: | 770 g |
| Package Level 1 EAN: | 7612271204143 |
| Package Level 2 Units: | 1 |

Classifications

| | |
|------------------------------------|--|
| Object Classification Code: | F |
| 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) |

