

S801N-C80



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

General Information

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|-------------------------------|---|
| Extended Product Type: | S801N-C80 |
| Product ID: | 2CCS891001R0804 |
| EAN: | 7612271204372 |
| Catalog Description: | S801N-C80 High Performance MCB |
| Long Description: | <p>The S801N-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 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 S801N-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 S801N-C80 more comfortable. Due to the fast arc extinction of S801N-C80 your application will be secured.</p> |

Ordering

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| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85362020 |

Popular Downloads

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

Dimensions

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

Technical

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

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| 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) 20 kA |
| 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 (125 V DC) 20 kA |
| Rated Service Short-Circuit Breaking Capacity (I_{cs}): | (240 / 415 V AC) 30 kA (254 / 440 V AC) 15 kA (400 / 690 V AC) 3 kA (125 V DC) 20 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 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

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| 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 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)

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

Container Information

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| 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: | 7612271204372 |
| Package Level 2 Units: | 1 |

Classifications

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| Object Classification Code: | F |
| E-nummer: | 2101524 |
| 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) |

