

PRODUCT-DETAILS

S803C-C80

S803C-C80 High Performance MCB



General Information

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| Extended Product Type | S803C-C80 |
| Product ID | 2CCS883001R0804 |
| EAN | 7612271213589 |
| Catalog Description | S803C-C80 High Performance MCB |

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| Long Description | <p>The S803C-C80 is a 3-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 S803C-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 S803C-C80 more comfortable. Due to the fast arc extinction of S803C-C80 your application will be secured.</p> |
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Technical

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| Standards | IEC/EN 60947-2, IEC/EN 60898-1, UL 1077 |
| Tripping Characteristic | C |
| Rated Voltage (U _r) | acc. to IEC 60947-2 440 V AC acc. to IEC 60947-2 375 V DC acc. to IEC 60898-1 400 V AC |
| Rated Operational Voltage | acc. to IEC 60947-2 440 V AC acc. to IEC 60947-2 375 V DC acc. to IEC 60898-1 400 V AC |
| Operational Voltage | Maximum 230/400 V AC Minimum 12 V AC |

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| Rated Insulation Voltage (U _i) | acc. to IEC/EN 60664-1 500 V |
| Rated Impulse Withstand Voltage (U _{imp}) | 8 kV |
| Input Voltage Type | AC/DC |
| Rated Current (I _n) | 80 A |
| Rated Operational Current (I _e) | 80 A |
| Rated Short-Circuit Capacity | (400 V) 15 kA (230 V) 15 kA |
| Rated Ultimate Short-Circuit Breaking Capacity (I _{cu}) | (240 / 415 V AC) 25 kA (254 / 440 V AC) 15 kA (375 V DC) 10 kA (230 V) 25 kA (400 V) 25 kA |
| Rated Conditional Short-Circuit Current (I _{nc}) | (230 V) 25 kA (400 V) 25 kA |
| Rated Service Short-Circuit Breaking Capacity (I _{cs}) | (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 | 19.2 W at Rated Operating Conditions per Pole 6.4 W |
| Contact Position Indication | ON / OFF / TRIP |
| Energy Limiting Class | 3 |
| Electrical Endurance | 6000 cycle |
| Mechanical Endurance | 4000 cycle |
| Number of Poles | 3 |
| Number of Protected Poles | 3 |
| 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 | Flexible 0...50 mm ² Rigid 0...70 mm ² |
| Terminal Type | Screw Terminals |

Environmental

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| 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 _e |

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| 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

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| Interrupting Rating acc. to UL1077 | (480Y / 277 V AC) 10 kA (375 V DC) 10 kA |
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Dimensions

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| Width in Number of Modular Spacings | 4.5 |
| Product Net Width | 81 mm |
| Product Net Height | 95 mm |
| Product Net Depth / Length | 82.5 mm |
| Product Net Weight | 735 g |
| Product Net Length | 81 mm |
| Built-In Depth (t ₂) | 82.5 mm |

Container Information

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| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 105 mm |
| Package Level 1 Height | 99 mm |
| Package Level 1 Depth / Length | 86 mm |
| Package Level 1 Gross Weight | 770 g |
| Package Level 1 EAN | 7612271213589 |

Ordering

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

Certificates and Declarations (Document Number)

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

Popular Downloads

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|--------------------------------------|-----------------|
| Data Sheet, Technical Information | 2CCC413003C0208 |
| Instructions and Manuals | 2CCC413016M0008 |

Classifications

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| 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 |

Categories

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

