

PRODUCT-DETAILS

S802N-D80

S802N-D80 High Performance MCB



General Information

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| Extended Product Type | S802N-D80 |
| Product ID | 2CCS892001R0801 |
| EAN | 7612271204976 |
| Catalog Description | S802N-D80 High Performance MCB |

Long Description

The S802N-D80 is a 2-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 S802N-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 S802N-D80 more comfortable. Due to the fast arc extinction of S802N-D80 your application will be secured.

Technical

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| Standards | IEC/EN 60947-2 IEC/EN 60898-1 |
| Number of Poles | 2 |
| Number of Protected Poles | 2 |
| Tripping Characteristic | D |
| Rated Current (I _n) | 80 A |
| Rated Operational Voltage | 400/690 V AC 250 V DC |
| Power Loss | 12.8 W |

at Rated Operating Conditions per Pole 6.4 W

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| 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}) | (400 V) 25 kA (230 V) 25 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 (250 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 |
| Actuator Marking | I / O |
| Contact Position Indication | ON / OFF / TRIP |
| Degree of Protection | 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 4000 cycle |
| Terminal Type | Screw Terminals |
| Connecting Capacity | Rigid 0 ... 50 mm ² Flexible 0 ... 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 |
| Built-In Depth (t ₂) | 82.5 mm |

Environmental

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| Ambient Air Temperature | Operation -25...60 °C |
| Reference Ambient Air Temperature | acc. to IEC60947-2 30 °C acc. to EN60898-1 30 °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 1e |
| 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 2011/65/EU |

Dimensions

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| Product Net Width | 54 mm |
| Product Net Depth / Length | 82.5 mm |
| Product Net Height | 95 mm |
| Product Net Weight | 490 g |

Container Information

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| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 105 mm |
| Package Level 1 Depth / Length | 60 mm |
| Package Level 1 Height | 99 mm |
| Package Level 1 Gross Weight | 510 g |
| Package Level 1 EAN | 7612271204976 |

Ordering

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

Certificates and Declarations (Document Number)

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|--------------------------------|------------------------------------|
| Declaration of Conformity - CE | 2CCC413016D0601 |
| Environmental Information | 2CCY413207D0203 |
| Instructions and Manuals | 2CCC413016M0008 |
| RoHS Information | 2CCC413016D0601 9AKK107680A3903 |

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CCC413003C0208 |
| Instructions and Manuals | 2CCC413016M0008 |
| Dimension Diagram | 2CCC413003C0201 |

Classifications

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| Object Classification Code | F |
| ETIM 6 | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 7 | EC000042 - Miniature circuit breaker (MCB) |

Categories

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

