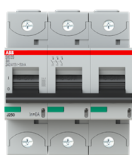




 PRODUCT-DETAILS

S803S-B6

S803S-B6 High Performance MCB



General Information

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|-----------------------|-------------------------------|
| Extended Product Type | S803S-B6 |
| Product ID | 2CCS863001R0065 |
| EAN | 7612271408121 |
| Catalog Description | S803S-B6 High Performance MCB |

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|------------------|--|
| Long Description | <p>The S803S-B6 is a 3-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 6 A. It is a current limiting device with a maximum breaking capacity of 50kA 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 S803S-B6 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 S803S-B6 more comfortable. Due to the fast arc extinction of S803S-B6 your application will be secured.</p> |
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ABB EcoSolutions

| | |
|---------------------------|--|
| ABB EcoSolutions | Yes |
| EcoSolutions Profile | 9AKK108471A1082 |
| Recyclability Rate of the | Design for Closing Resource Loops - Standard EN45555 - 86.29 % |

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| Product acc. to EN45555 | |
| ABB Site Meeting Group Waste To Landfill Target | No non-hazardous waste is sent to a landfill |
| End Of Life Disassembling Instructions | 9AKK108470A2575 |
| Environmental Product Declaration - EPD | 9AKK108470A1695,9AKK108470A1696 |

Technical

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|---|--|
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}) | (415 V AC) 50 kA (440 V AC) 30 kA (500 V AC) 15 kA (690 V AC) 6 kA (375 V DC) 30 kA |
| Rated Service Short-Circuit Breaking Capacity (I_{cs}) | (415 V AC) 40 kA (440 V AC) 22.5 kA (500 V AC) 11 kA (690 V AC) 4 kA (375 V DC) 30 kA |
| Contact Position Indication | ON / OFF / TRIP |
| Energy Limiting Class | 3 |
| Electrical Endurance | 10000 cycle |
| Mechanical Endurance | 10000 cycle |
| Number of Protected Poles | 3 |
| Number of Poles | 3P |
| Tightening Torque | 3.5 N·m 31 in·lb |
| Release Type | B |
| Actuator Marking | I / O |
| 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 |

Electrical

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|---|--|
| Tripping Characteristic | B |
| Rated Operational Voltage | acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 690 V AC |
| Rated Insulation Voltage (U_i) | acc. to IEC/EN 60664-1 690 V |
| Rated Impulse Withstand Voltage (U_{imp}) | 8 kV |
| Input Voltage Type | AC/DC |
| Rated Current (I_n) | 6 A |
| Rated Short-Circuit Capacity | (400 V AC) 25 kA |
| Frequency (f) | 60...60 Hz |
| Rated Frequency (f) | 50/60 Hz |
| Power Loss | Total 5.4 W |

at Rated Operating Conditions per Pole 1.8 W

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|----------------------|----|
| Overvoltage Category | IV |
|----------------------|----|

Design

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|------------------|------------------------------|
| Housing Material | Insulation group I, RAL 7035 |
|------------------|------------------------------|

Technical UL/CSA

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|------------------------------------|---|
| Interrupting Rating acc. to UL1077 | (480Y / 277 V AC) 14 kA (600Y / 347 V AC) 6 kA |
|------------------------------------|---|

Material Compliance

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|---|--|
| RoHS Declaration | 2CCC005083D0202 |
| RoHS Information | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date | 20211214 |
| REACH Declaration | 9AKK108470A9089 |
| REACH Information | False - does not contain substances > 0.1 mass percentage |
| REACH Date | 20250313 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B | Business To Business |

Environmental

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|-----------------------------------|--|
| Ambient Air Temperature | Operation -40 ... 70 °C Storage -40 ... 70 °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 | 1 mm 2 - 13.2 Hz 0.7g with Load 100% x le 13.2 - 100 Hz |
| Environmental Information | 2CCY413207D0203 |

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 |
| Built-In Depth (t ₂) | 82.5 mm |
| Dimension Diagram | 2CCC413003C0201 |

Engineering

EPLAN Data

9AAC172534_EPLAN

Ordering

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|------------------------------|-------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Gross Weight | 770 g |
| E-Number (Finland) | 3212305 |
| E-Number (Norway) | 1628404 |

Certificates and Declarations

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|--------------------------------|-----------------|
| CB Certificate | 9AKK107680A0857 |
| CCC Certificate | 9AKK108469A3021 |
| Declaration of Conformity - CE | 2CCC005083D0202 |
| DNV GL Certificate | 2CCC413018D0201 |
| ESTI Certificate | 2CCC413020D0101 |
| KC Certificate | 9AKK107680A0932 |
| LR Certificate | 2CCC413017D0201 |
| UL Certificate | 9AKK107680A2286 |
| VDE Certificate | 2CCC413039D0601 |

Installation

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|--------------------------|--|
| Instructions and Manuals | 2CCC413016M0008 |
| 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 |

Popular Downloads

| | |
|-----------------------------------|---|
| Data Sheet, Technical Information | 9AKK108468A9560 9AKK108468A9561 9AKK108468A9562 |
|-----------------------------------|---|

External Classifications and Standards

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|------------------------------------|--|
| ETIM 9 | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 10 | EC000042 - Miniature circuit breaker (MCB) |
| UNSPSC | 39121603 |
| eClass | V11.0 : 27141901 |
| IDEA Granular Category Code (IGCC) | 4899 >> Miniature circuit breaker (MCB) screw-in model |
| Object Classification Code | F |
| Standards | IEC/EN 60947-2 IEC/EN 60898-1 UL 1077 |

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → High Performance Circuit Breakers HPCBs → High Performance Circuit Breakers HPCBs - S800

