



PRODUCT-DETAILS

SU203M-Z50

Miniature Circuit Breaker - SU200M - 3P - 50 A - Z - (400 V AC) 11.2 kA



General Information

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| Extended Product Type | SU203M-Z50 |
| Product ID | 2CDS273337R0578 |
| EAN | 4016779933506 |
| Catalog Description | Miniature Circuit Breaker - SU200M - 3P - 50 A - Z - (400 V AC) 11.2 kA |
| Long Description | SU203M-Z50 Miniature Circuit Breaker Z-Char., UL10kA, IEC15kA, 50A, 3P UL489 |

ABB EcoSolutions

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|---|---|
| ABB EcoSolutions | Yes |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 62 % |
| ABB Site Meeting Group Waste To Landfill Target | No non-hazardous waste is sent to a landfill |
| Extended Product Lifetime | Product Durability |
| End Of Life Disassembling Instructions | 9AKK108471A4773 |
| Environmental Product | 9AKK108470A9950 |

Declaration - EPD

Technical

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| Dielectric Test Voltage | 50 / 60 Hz - 1 min 2 kV |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}) | (400 V AC) 15 kA (400 V) 15 kA |
| Rated Service Short-Circuit Breaking Capacity (I_{cs}) | (400 V AC) 7.5 kA |
| Power Supply Connection | Arbitrary |
| Contact Position Indication | Red ON / Green OFF |
| Energy Limiting Class | 3 |
| Electrical Endurance | 10000 AC cycle |
| Mechanical Endurance | 20000 cycle |
| Number of Protected Poles | 3 |
| Number of Poles | 3P |
| Tightening Torque | 2.8 N·m |
| Actuator Type | Toggle |
| Screw Terminal Type | Failsafe Bi-directional Cylinder-lift Terminal |
| Actuator Marking | I / O |
| Actuator Material | Insulation Group II, Black, Sealable |
| Recommended Screw Driver | Pozidriv 2 |
| Accessories Available | Yes |
| Connecting Capacity | Busbar 10/10 mm ² Flexible with Ferrule 0.75 ... 25 mm ² Flexible 0.75 ... 25 mm ² Flexible 0.75 ... 25 mm ² Rigid 0.75 ... 35 mm ² Stranded 0.75 ... 35 mm ² |
| Installation Size | acc. to DIN 43880 3 |
| Terminal Type | Double Clamp |

Electrical

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| Tripping Characteristic | Z |
| Rated Operational Voltage | acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 400 V AC |
| Rated Insulation Voltage (U_i) | acc. to IEC/EN 60664-1 440 V |
| Rated Impulse Withstand Voltage (U_{imp}) | 4 kV at 2000 m 5 kV at Sea Level 6.2 kV |
| Input Voltage Type | AC/DC |
| Rated Current (I_n) | 50 A |
| Rated Short-Circuit Capacity | (400 V AC) 11.2 kA |
| Rated Conditional Short-Circuit Current (I_{nc}) | (400 V) 15 kA |
| Rated Frequency (f) | 50 / 60 Hz DC |
| Power Loss | 13.5 W at Rated Operating Conditions per Pole 4.5 W |

Overvoltage Category

III

Design

Housing Material

Insulation Group I, RAL 7035

Technical UL/CSA

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|-----------------------------------|---------------------------------------|
| Maximum Operating Voltage UL/CSA | 240 V AC |
| Interrupting Rating acc. to UL489 | (240 V AC) 10 kA |
| Connecting Capacity UL/CSA | Busbar 18-8 AWG Conductor 18-4 AWG |

Material Compliance

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| RoHS Declaration | 9AKK108472A0372 |
| RoHS Information | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date | 20251203 |
| REACH Declaration | 9AKK107492A1906 |
| REACH Information | False - does not contain substances > 0.1 mass percentage |
| REACH Date | 20251029 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |
| Toxic Substances Control Act - TSCA | 9AKK108468A8104 |
| SCIP | 89318623-ff2d-4ce0-aefe-5d16fac11138 Germany |
| 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 -25 ... +55 °C Storage -40 ... +70 °C |
| Reference Ambient Air Temperature | 30 °C |
| Degree of Protection | IP20 IP40 Enclosure with Cover IP40 |
| Pollution Degree | 3 |
| Environmental Conditions | 28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 % |
| Resistance to Vibrations | 20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz |
| Resistance to Shock acc. to IEC 60068-2-27 | 25g 2 shocks 13 ms |
| Environmental Information | 9AKK107680A9140 |

Dimensions

Width in Number of Modular Spacings

3

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|----------------------------------|----------|
| Product Net Width | 52.5 mm |
| Product Net Height | 111 mm |
| Product Net Depth / Length | 69 mm |
| Product Net Weight | 0.39 kg |
| Pole Net Weight | 0.125 kg |
| Built-In Depth (t ₂) | 69 mm |

Ordering

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|------------------------------|----------------|
| Package Level 1 Units | carton 1 piece |
| Package Level 1 Gross Weight | 0.41 kg |

Certificates and Declarations

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|----------------------------------|-----------------|
| Declaration of Conformity - CE | 2CDK400595D2705 |
| Declaration of Conformity - UKCA | 9AKK108467A5201 |

Installation

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|--------------------------|--|
| Instructions and Manuals | 2CDC002177D0202 |
| 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 | 2CDC002177D0204 |
|-----------------------------------|-----------------|

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 |
| Standards | CSA 22.2 No. 5 IEC/EN 60947-2 UL 489 |
| Certification Agency | CSA EN IEC UL |
| Standardization Body | CSA EN IEC UL |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|---------------------------------------|-----------|----------|-----------------|
| 2CCA880100R0001 | CMS-100PS Sensor | CMS-100PS | 1 | piece |
| 2CCA880101R0001 | CMS-101PS Sensor | CMS-101PS | 1 | piece |
| 2CCA880102R0001 | CMS-102PS Sensor | CMS-102PS | 1 | piece |
| 2CDS200914R0001 | S2C-H6RU Auxiliary Contact 1CO, UL489 | S2C-H6RU | 1 | piece |
| 2CDS200924R0001 | S2C-S6RU Signal Contact UL489 | S2C-S6RU | 1 | piece |
| 2CDS200908R0001 | S2C-A1U Shunt Trip, 12...110V, UL489 | S2C-A1U | 1 | piece |
| 2CDS200908R0002 | S2C-A2U Shunt Trip, 110...415V, UL489 | S2C-A2U | 1 | piece |

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs → SU200M



360°

