PRODUCT-DETAILS

# S402M-UCC1

## Miniature Circuit Breaker



### General Information

| | |
|---|---|
| Extended Product Type | S402M-UCC1 |
| Product ID | 2CCS562001R1014 |
| EAN | 7612270109920 |
| Catalog Description | Miniature Circuit Breaker |
| Long Description | The miniature circuit breaker S400M UC extends the established SMISSLINE TP product range with an MCB for DC and AC applications. The S400M UC impresses with its performance range. Its high inbuilt short circuit breaking capacity across the entire model line, its flexible AC and DC application. MCBs of the product range S400M UC are comply with IEC/EN 60947-2. The pluggable solution is only for the SMISSLINE TP System, allowing the use for commercial, industrial, and critical power applications. It is also the perfect fit for any application where costly downtime must be avoided. |

### ABB EcoSolutions

| | |
|---|---|
| ABB EcoSolutions | Yes |
| Circular Design Principles Recyclability Rate | Design for Closing Resource Loops - Standard EN45555 - 58.6323356825684 % |
| Circular Design | 9AKK108469A6507 |

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| | |
|---|---|
| Principles Ecodesign | |
| Group Waste to Landfill Target | No non-hazardous waste is sent to a landfill |
| Sustainable Material Content in Packaging | Recycled Cardboard - 18.1 %<br>Recycled Cardboard - 67.7 %<br>Chemically Recycled Polymer - 0.0 % |
| Offered with Extended Lifetime | Product Durability |
| End of Life Instructions | 9AKK108469A6908 |
| Environmental Product Declaration - EPD | 9AKK108469A5735 |

## Technical

| | |
|---|---|
| Standards | IEC/EN 60947-2 |
| Tripping Characteristic | UC-C |
| Rated Operational Voltage | acc. to IEC 60898-1 400 V |
| Rated Insulation Voltage ($U_i$) | acc. to IEC/EN 60664-1 440 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | 4 kV |
| Input Voltage Type | AC/DC |
| Rated Current ($I_n$) | 1 A |
| Rated Operational Current ($I_e$) | 1 A |
| Rated Short-Circuit Capacity | (230 V) 10 kA<br>(400 V) 10 kA |
| Rated Ultimate Short-Circuit Breaking Capacity ($I_{cu}$) | (230 V) 15 kA<br>(400 V) 15 kA |
| Rated Service Short-Circuit Breaking Capacity ($I_{cs}$) | (220 V DC) 20 kA<br>(440 V DC) 10 kA |
| Rated Service Short-Circuit Breaking Capacity, in % of Icu ($I_{cs}$) | 75 % |
| Frequency (f) | 50 ... 60 Hz |
| Rated Frequency (f) | 50 ... 60 Hz |
| Power Loss | 4.4 W |
| Power Supply Connection | Arbitrary |
| Contact Position Indication | Red ON / Green OFF |
| Energy Limiting Class | 3 |
| Electrical Endurance | 10000 cycle |
| Mechanical Endurance | 10000 cycle |
| Number of Protected Poles | 2 |
| Number of Poles | 2 |
| Overvoltage Category | III |
| Tightening Torque | 2.8 N·m |
| Trip Class | UC-C |
| Release Type | C |
| Screw Terminal Type | Failsafe Bi-directional Cylinder-lift Terminal |
| Actuator Marking | I / O |
| Mounting Position | Any |

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| | |
|---|---|
| Recommended Screw Driver | Pozidriv 2 |
| Accessories Available | Yes |
| Connecting Capacity | Flexible 0.75 … 25 mm²<br>Rigid 0.75 … 35 mm² |
| Terminal Type | Screw Terminals |

## Material Compliance

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|---|---|
| RoHS Information | 9AKK107991A9644 |
| RoHS Status | Following EU Directive 2002/95/EC August 18, 2005 and amendment |
| RoHS Date | 20170426 |
| REACH Declaration | 9AKK108467A9561 |
| REACH Information | True - contains substances > 0.1 mass percentage |
| REACH Date | 20230417 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |

## Environmental

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|---|---|
| Ambient Air Temperature | Operation -25 … 60 °C |
| Reference Ambient Air Temperature | 30 °C |
| Degree of Protection | IP20 |
| Pollution Degree | 2 |
| Resistance to Vibrations | 1 mm 2 … 13.2 Hz |
| Environmental Information | 9AKK108467A9561 |

## Dimensions

| | |
|---|---|
| Width in Number of Modular Spacings | 2 |
| Product Net Width | 36 mm |
| Product Net Height | 91 mm |
| Product Net Depth / Length | 75 mm |
| Product Net Weight | 290 g |
| Built-In Depth ($t_2$) | 91 mm |
| Dimension Diagram | 9AKK107492A6192 |

## Ordering

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|---|---|
| Package Level 1 Units | carton 5 piece |
| Package Level 1 Gross Weight | 1514 g |
| E-Number (Norway) | 1623353 |
| E-Number (Switzerland) | 809540107 |

## Certificates and Declarations

| | |
|---|---|
| Declaration of | 9AKK107991A9644 |

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Conformity - CE

## Installation

| | |
|---|---|
| Instructions and Manuals | 2CCC451019M0109 |

## Popular Downloads

| | |
|---|---|
| Data Sheet, Technical Information | 9AKK107492A6192 |

## Classifications

| | |
|---|---|
| ETIM 8 | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 9 | EC000042 - Miniature circuit breaker (MCB) |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B | Business To Business |
| CN8 | 85363020 |
| eClass | V11.0 : 27141901 |
| Object Classification Code | FC |

## Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|---|---|---|---|---|
| 2CCS500900R0081 | HK40011-L | Auxiliary swtich | 1 | piece |
| 2CCS500900R0214 | HK40011-R | Auxiliary swtich | 1 | piece |
| 2CCF201112R0001 | HK40020-L | Auxiliary swtich | 1 | piece |
| 2CCF201114R0001 | HK40002-L | Auxiliary swtich | 1 | piece |
| 2CCF201113R0001 | HK40020-R | Auxiliary swtich | 1 | piece |
| 2CCF201115R0001 | HK40002-R | Auxiliary swtich | 1 | piece |
| 2CCS500900R0101 | SK40011-L | Signal contact | 1 | piece |
| 2CCS500900R0215 | SK40011-R | Signal contact | 1 | piece |
| 2CCF201162R0001 | SK40020-L | Signal contact | 1 | piece |
| 2CCF201164R0001 | SK40002-L | Signal contact | 1 | piece |
| 2CCF201163R0001 | SK40020-R | Signal contact | 1 | piece |
| 2CCF201165R0001 | SK40002-R | Signal contact | 1 | piece |
| 2CCS500900R0141 | SK40010-LSA | Signal contact | 1 | piece |
| 2CCF201212R0001 | HK40010-LSA | Auxiliary swtich | 1 | piece |
| 2CCS500900R0216 | SK40010-RSA | Signal contact | 1 | piece |
| 2CCF201213R0001 | HK40010-RSA | Auxiliary swtich | 1 | piece |
| 2CCS500900R0161 | ZLS931 | Spare parts | 1 | piece |
| 2CCA880212R0001 | CMS-122PS | Sensor | 2 | piece |
| 2CCA880102R0001 | CMS-102PS | Sensor | 2 | piece |

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## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Plug-in Distribution Systems → Plug-in Distribution Systems → Miniature Circuit Breakers MCBs



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