



PRODUCT-DETAILS

# S402M-UCZ20

## Miniature Circuit Breaker



| 概要信息        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 产品型号        | S402M-UCZ20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 产品ID        | 2CCS572001R1208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 欧洲商品编号(EAN) | 7612270110360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 目录说明        | Miniature Circuit Breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 详细描述        | <p>The miniature circuit breaker S400M UC extends the established SMISLINE 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 SMISLINE 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.</p> |

| ABB EcoSolutions                     |                                                                           |
|--------------------------------------|---------------------------------------------------------------------------|
| ABB EcoSolutions                     | 是                                                                         |
| 根据EN45555标准的产品可回收率 ( % )             | Design for Closing Resource Loops - Standard EN45555 - 58.6323356825684 % |
| Circular Design Principles Ecodesign | 9AKK108469A6507                                                           |

|                               |                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------|
| 在ABB工厂生产，该工厂已达到集团垃圾填埋目标（工厂名称） | No non-hazardous waste is sent to a landfill                                                      |
| 包装中的可持续材料含量（重量%）              | Recycled Cardboard - 18.1 %<br>Recycled Cardboard - 67.7 %<br>Chemically Recycled Polymer - 0.0 % |
| 延长产品使用寿命                      | Product Durability                                                                                |
| 产品寿命终止后的拆解指南                  | 9AKK108469A6908                                                                                   |
| 产品环境声明 - EPD                  | 9AKK108469A5735                                                                                   |

技术参数

|                                                      |                                                                           |
|------------------------------------------------------|---------------------------------------------------------------------------|
| 标准                                                   | IEC/EN 60947-2                                                            |
| 脱扣特性                                                 | UC-Z                                                                      |
| 额定工作电压                                               | acc. to IEC 60898-1 400 V                                                 |
| 额定绝缘电压 (U <sub>i</sub> )                             | acc. to IEC/EN 60664-1 440 V                                              |
| 额定冲击耐受电压 (U <sub>imp</sub> )                         | 4 kV                                                                      |
| 输入电压类型                                               | AC/DC                                                                     |
| 额定电流 (I <sub>n</sub> )                               | 20 A                                                                      |
| 额定工作电流 (I <sub>e</sub> )                             | 20 A                                                                      |
| 额定短路容量                                               | (230 V) 10 kA<br>(400 V) 10 kA                                            |
| 额定极限短路分断容量 (I <sub>cu</sub> )                        | (230 V) 15 kA<br>(400 V) 15 kA                                            |
| 额定服务短路分断容量 (I <sub>cs</sub> )                        | (220 V DC) 20 kA<br>(440 V DC) 10 kA                                      |
| 额定运行短路分断能力, 以I <sub>cu</sub> 的%表示 (I <sub>cs</sub> ) | 75 %                                                                      |
| 频率 (f)                                               | 50 ... 60 Hz                                                              |
| 额定频率 (f)                                             | 50 ... 60 Hz                                                              |
| 功率损耗                                                 | 4.4 W                                                                     |
| 进线方式                                                 | Arbitrary                                                                 |
| 触头位置指示                                               | Red ON / Green OFF                                                        |
| 限能等级                                                 | 3                                                                         |
| 电气耐久性                                                | 10000 cycle                                                               |
| 机械寿命                                                 | 10000 cycle                                                               |
| 保护极数                                                 | 2                                                                         |
| 极数                                                   | 2P                                                                        |
| 过电压类别                                                | III                                                                       |
| 拧紧力矩                                                 | 2.8 N·m                                                                   |
| 脱扣等级                                                 | UC-Z                                                                      |
| 脱扣器类型                                                | Z                                                                         |
| 螺钉端子类型                                               | Failsafe Bi-directional Cylinder-lift Terminal                            |
| 驱动器标记                                                | I / O                                                                     |
| 安装位置                                                 | Any                                                                       |
| 推荐的螺丝刀                                               | Pozidriv 2                                                                |
| Accessories Available                                | 是                                                                         |
| 连接容量                                                 | Flexible 0.75 ... 25 mm <sup>2</sup><br>Rigid 0.75 ... 35 mm <sup>2</sup> |
| 端子类型                                                 | Screw Terminals                                                           |

Material Compliance

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

环境条件

|                      |                         |
|----------------------|-------------------------|
| 周围环境温度               | Operation -25 ... 60 °C |
| 编号周围空气温度             | 30 °C                   |
| 防护等级                 | IP20                    |
| 污染等级                 | 2                       |
| 耐振动符合IEC 60068-2-6标准 | 1 mm 2 ... 13.2 Hz      |
| 环境信息                 | 9AKK108467A9561         |

尺寸

|                      |                 |
|----------------------|-----------------|
| 宽度(模块化垫片数)           | 2               |
| 产品净宽                 | 36 mm           |
| 产品净高                 | 91 mm           |
| 产品净深                 | 75 mm           |
| 产品净重                 | 290 g           |
| 内深 (t <sub>2</sub> ) | 75 mm           |
| 尺寸图                  | 9AKK107492A6192 |

订货信息

|                        |                |
|------------------------|----------------|
| 1级包装单元                 | carton 5 piece |
| 1级包装 总重                | 1514 g         |
| E-Number (Norway)      | 1623380        |
| E-Number (Switzerland) | 809650107      |

认证及声明（文件编码）

|            |                 |
|------------|-----------------|
| 符合性声明 - CE | 9AKK107991A9644 |
|------------|-----------------|

Installation

|        |                 |
|--------|-----------------|
| 说明书和手册 | 2CCC451019M0109 |
|--------|-----------------|

Popular Downloads

|           |                 |
|-----------|-----------------|
| 数据手册，技术资料 | 9AKK107492A6192 |
|-----------|-----------------|

| 分类             |                                                            |
|----------------|------------------------------------------------------------|
| ETIM 8         | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 9         | EC000042 - Miniature circuit breaker (MCB)                 |
| WEEE 类别        | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B | Business To Business                                       |
| CN8            | 85363020                                                   |
| e级             | V11.0 : 27141901                                           |
| 对象分类代码         | 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           |  |

| 分类                                                                                          |
|---------------------------------------------------------------------------------------------|
| 低压产品及系统 → 线路保护产品 → Plug-in Distribution Systems → 插入式配电系统 → Miniature Circuit Breakers MCBs |

