



PRODUCT-DETAILS

# S402M-K6

## Miniature Circuit Breaker



| 概要信息        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 产品型号        | S402M-K6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 产品ID        | 2CCS572001R0377                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 欧洲商品编号(EAN) | 7612270102433                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 目录说明        | Miniature Circuit Breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 详细描述        | <p>SMISLINE TP S400M are a current limiting miniature circuit breakers. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection.</p> <p>They are available in different characteristics (B,C,D,K), configurations (1P,1P+N,2P,3P,3P+N), breaking capacities (up to 10 kA at 240/415 V AC ) and rated currents (up to 63A). MCBs of the product range S400M are comply with IEC/EN 60898 -1 for B,C and D characteristic and IEC/EN 60947-2 for C and K characteristic. The pluggable solution is only for the SMISLINE TP System, allowing the use for commercial, industrial, and critical power applications.</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          | 9AKK108469A6507                                                           |

|                               |                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------|
| Principles Ecodesign          |                                                                                                   |
| 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                                                 | K                                                                         |
| 额定工作电压                                               | acc. to IEC 60898-1 240 V                                                 |
| 操作电压                                                 | Maximum (Incl. Tolerance) 440 V AC<br>Minimum 12 V AC<br>Minimum 12 V DC  |
| 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                                                                        |
| 额定电流 (I <sub>N</sub> )                               | 6 A                                                                       |
| 额定工作电流 (I <sub>e</sub> )                             | 6 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) 25 kA<br>(400 V) 25 kA                                            |
| 额定短路接通容量 (I <sub>cm</sub> )                          | (440 V AC) 30 kA<br>(415 V AC) 52.2 kA                                    |
| 额定服务短路分断容量 (I <sub>cs</sub> )                        | (240 V AC) 15 kA<br>(415 V AC) 15 kA<br>(440 V AC) 7.5 kA                 |
| 额定运行短路分断能力, 以I <sub>cu</sub> 的%表示 (I <sub>cs</sub> ) | 50 %                                                                      |
| 频率 (f)                                               | 50 ... 60 Hz                                                              |
| 额定频率 (f)                                             | 50 ... 60 Hz                                                              |
| 功率损耗                                                 | 3.4 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                                                                   |
| 脱扣器类型                                                | K                                                                         |
| 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                                      | 9AKK107991A9634                                                 |
| 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             | 40 °C                   |
| 防护等级                 | IP20                    |
| 污染等级                 | 3                       |
| 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                 | 221 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                | 1170 g         |
| E-Number (Norway)      | 1623341        |
| E-Number (Switzerland) | 809246807      |

认证及声明（文件编码）

|            |                 |
|------------|-----------------|
| 符合性声明 - CE | 9AKK107991A9634 |
|------------|-----------------|

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            | 85362020                                                   |
| 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           |
| 2CCS500900R0021 | NT40163     | Neutral disconnect terminal block | 1        | piece           |
| 2CCS500900R0011 | NT40263     | Neutral disconnect terminal block | 1        | piece           |
| 2CDS200909R0001 | S2C-A1      | Shunt Trip                        | 1        | piece           |
| 2CDS200909R0002 | S2C-A2      | Shunt Trip                        | 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

