



PRODUCT-DETAILS

# S201-D20NA

## Miniature Circuit Breaker - 1P+N - D - 20 A



| 概要信息        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 产品型号        | S201-D20NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 产品ID        | 2CDS251103R0201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 欧洲商品编号(EAN) | 4016779532105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 目录说明        | Miniature Circuit Breaker - 1P+N - D - 20 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 详细描述        | System pro M compact S200 miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C,D,K,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space. |

| ABB EcoSolutions         |                                                               |
|--------------------------|---------------------------------------------------------------|
| ABB EcoSolutions         | 是                                                             |
| EcoSolutions Profile     | 9AKK108469A3796                                               |
| 根据EN45555标准的产品可回收率 ( % ) | Design for Closing Resource Loops - Standard EN45555 - 87.8 % |

|              |                    |
|--------------|--------------------|
| 延长产品使用寿命     | Product Durability |
| 产品寿命终止后的拆解指南 | 9AKK108468A3132    |
| 产品环境声明 - EPD | 9AKK108467A7832    |

技术参数

|                               |                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| 标准                            | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077                                                                  |
| 脱扣特性                          | D                                                                                                            |
| 额定工作电压                        | acc. to IEC 60898-1 230 V AC<br>acc. to IEC 60898-1 230 V<br>acc. to IEC 60947-2 230 V AC                    |
| 操作电压                          | Maximum (Incl. Tolerance) 253 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<br>at 2000 m 5 kV<br>at Sea Level 6.2 kV                                                                |
| 介电试验电压                        | 50/60 Hz-1 min: 2 kV                                                                                         |
| 输入电压类型                        | AC                                                                                                           |
| 额定电流 (I <sub>n</sub> )        | 20 A                                                                                                         |
| 额定短路容量                        | (AC) 6 kA<br>(DC) 6 kA<br>(230 V AC) 6 kA<br>(230 V) 6 kA<br>(400 V) 6 kA                                    |
| 额定极限短路分断容量 (I <sub>cu</sub> ) | (133 V AC) 20 kA<br>(230 V AC) 10 kA<br>(24 V DC) 20 kA<br>(60 V DC) 10 kA<br>(230 V) 10 kA<br>(400 V) 10 kA |
| 额定限制短路电流 (I <sub>nc</sub> )   | (230 V) 10 kA                                                                                                |
| 额定服务短路分断容量 (I <sub>cs</sub> ) | (133 V AC) 15 kA<br>(230 V AC) 7.5 kA                                                                        |
| 频率 (f)                        | 50 Hz                                                                                                        |
| 额定频率 (f)                      | 50 / 60 Hz                                                                                                   |
| 功率损耗                          | 4.6 W<br>at Rated Operating Conditions per Pole 2.3 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                         | 20000 AC cycle                                                                                               |
| 机械寿命                          | 20000 cycle                                                                                                  |
| 保护极数                          | 1                                                                                                            |
| 极数                            | 1P+N                                                                                                         |
| 过电压类别                         | III                                                                                                          |
| 中性端子位置                        | Right                                                                                                        |
| 拧紧力矩                          | 2.8 N·m                                                                                                      |
| 安装类型                          | DIN-Rail                                                                                                     |
| 螺钉端子类型                        | Failsafe Bi-directional Cylinder-lift Terminal                                                               |
| 驱动器标记                         | I / O                                                                                                        |
| 驱动器材料                         | Insulation Group II, Black, Sealable                                                                         |
| 壳体材料                          | Insulation Group II, RAL 7035                                                                                |
| 安装到DIN导轨上                     | 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 |                                                                                                                                                                                                                                               |
| 安装位置                                                   | any                                                                                                                                                                                                                                           |
| 推荐的螺丝刀                                                 | Pozidriv 2                                                                                                                                                                                                                                    |
| Accessories Available                                  | 是                                                                                                                                                                                                                                             |
| 连接容量                                                   | Busbar 10 / 10 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 25 mm <sup>2</sup><br>Flexible 0.75 ... 25 mm <sup>2</sup><br>Rigid 0.75 ... 35 mm <sup>2</sup><br>Rigid 0.75 ... 35 mm <sup>2</sup><br>Stranded 0.75 ... 35 mm <sup>2</sup> |
| 安装孔尺寸                                                  | acc. to DIN 43880 1                                                                                                                                                                                                                           |
| 剥线长度                                                   | 12.5 mm                                                                                                                                                                                                                                       |
| 端子类型                                                   | Screw Terminals                                                                                                                                                                                                                               |

Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| RoHS信息                                      | 2CDK403001D0607                                                        |
| RoHS状态                                      | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS日期                                      | 0335                                                                   |
| REACH Declaration                           | 9AKK107492A1906                                                        |
| REACH Information                           | True - contains substances > 0.1 mass percentage                       |
| REACH Date                                  | 20240821                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                                        |
| SCIP                                        | e6800e55-46b1-49a3-881b-0f66d0e903ad Germany (DE)                      |

环境条件

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| 周围环境温度                  | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| 编号周围空气温度                | 30 °C                                                     |
| 防护等级                    | IP20<br>IP40<br>Enclosure with Cover IP40                 |
| 污染等级                    | 3                                                         |
| 环境条件                    | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| 耐振动符合IEC 60068-2-6标准    | 20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz         |
| 抗机械冲击符合IEC 60068-2-27标准 | 25g 2 shocks 13 ms                                        |

UL/CSA适用的技术参数

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| 最高工作电压UL/CSA    | 110 V DC<br>480Y/277 V AC                           |
| 中断额定值符合UL1077标准 | (277 V AC) 6 kA<br>(60 V DC) 10 kA<br>(120 V) 10 kA |
| 连接容量UL/CSA      | Busbar 18-8 AWG<br>Conductor 18-4 AWG               |
| 拧紧力矩UL/CSA      | 18 in-lb                                            |

尺寸

|                      |                 |
|----------------------|-----------------|
| 宽度(模块化垫片数)           | 2.0             |
| 产品净宽                 | 35 mm           |
| 产品净高                 | 88 mm           |
| 产品净深                 | 69 mm           |
| 产品净重                 | 0.25 kg         |
| 极点净重                 | 0.125 kg        |
| 内深 (t <sub>2</sub> ) | 69 mm           |
| 尺寸图                  | 2CDC022007F0010 |

订货信息

|                   |                |
|-------------------|----------------|
| 1级包装单元            | carton 5 piece |
| 1级包装 总重           | 1.3 kg         |
| E-Number (Norway) | 1664881        |

认证及声明（文件编码）

|                                     |                 |
|-------------------------------------|-----------------|
| 符合性声明 - CE                          | 2CDK403001D0607 |
| Declaration of<br>Conformity - UKCA | 9AKK108467A5053 |
| IEC Characteristic                  | 9AKK107992A5103 |
| 认证机构                                | EN<br>IEC<br>UL |

Installation

|        |                 |
|--------|-----------------|
| 说明书和手册 | 2CDS207104P0002 |
|--------|-----------------|

Popular Downloads

|                    |                 |
|--------------------|-----------------|
| 数据手册，技术资料          | 9AKK107991A8329 |
| IEC Characteristic | 9AKK107992A5103 |

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                | 8536 20 10                                                 |
| UNSPSC             | 39121603                                                   |
| e级                 | V11.0 : 27141901                                           |
| IDEA 粒度分类代码 (IGCC) | 4897 >> Miniature circuit breakers                         |
| 对象分类代码             | F                                                          |

Accessories

| Identifier      | Description                | Type          | Quantity | Unit Of Measure |
|-----------------|----------------------------|---------------|----------|-----------------|
| 2CDS200922R0001 | Signal / Auxiliary Contact | S2C-S/H6R     | 1        | piece           |
| 2CDS200912R0001 | Auxiliary Contact          | S2C-H6R       | 1        | piece           |
| 2CDS200970R0031 | Auxiliary Contact          | S2C-H01       | 1        | piece           |
| 2CDS200970R0032 | Auxiliary Contact          | S2C-H10       | 1        | piece           |
| 2CDS200936R0001 | Auxiliary Contact          | S2C-H11L      | 1        | piece           |
| 2CDS200936R0002 | Auxiliary Contact          | S2C-H20L      | 1        | piece           |
| 2CDS200936R0003 | Auxiliary Contact          | S2C-H02L      | 1        | piece           |
| 2CDS200946R0001 | Auxiliary Contact          | S2C-H6-11R    | 1        | piece           |
| 2CDS200946R0002 | Auxiliary Contact          | S2C-H6-20R    | 1        | piece           |
| 2CDS200946R0003 | Auxiliary Contact          | S2C-H6-02R    | 1        | piece           |
| 2CDS200909R0001 | Shunt Trip                 | S2C-A1        | 1        | piece           |
| 2CDS200909R0002 | Shunt Trip                 | S2C-A2        | 1        | piece           |
| 2CSS200911R0001 | Undervoltage Release       | S2C-UA 12 DC  | 1        | piece           |
| 2CSS200911R0002 | Undervoltage Release       | S2C-UA 24 AC  | 1        | piece           |
| 2CSS200911R0003 | Undervoltage Release       | S2C-UA 48 AC  | 1        | piece           |
| 2CSS200911R0004 | Undervoltage Release       | S2C-UA 110 AC | 1        | piece           |
| 2CSS200911R0005 | Undervoltage Release       | S2C-UA 230 AC | 1        | piece           |
| 2CSS200911R0006 | Undervoltage Release       | S2C-UA 400 AC | 1        | piece           |
| 2CSS200911R0007 | Undervoltage Release       | S2C-UA 24 DC  | 1        | piece           |
| 2CSS200911R0008 | Undervoltage Release       | S2C-UA 48 DC  | 1        | piece           |
| 2CSS200911R0009 | Undervoltage Release       | S2C-UA 110 DC | 1        | piece           |
| 2CSS200911R0010 | Undervoltage Release       | S2C-UA 230 DC | 1        | piece           |
| GHS2001901R0003 | Mechanical Accessories     | S2C-DH        | 1        | piece           |
| 2CSS200998R0001 | Mechanical tripping device | S2C-BP        | 1        | piece           |
| 2CSS200999R0001 | Plug-in base               | S2C-EST       | 1        | piece           |
| 2CDS200918R0001 | Hand Operated Neutral      | S2C-NT        | 1        | piece           |
| 2CCA880100R0001 | Sensor                     | CMS-100PS     | 1        | piece           |
| 2CCA880101R0001 | Sensor                     | CMS-101PS     | 1        | piece           |
| 2CCA880102R0001 | Sensor                     | CMS-102PS     | 1        | piece           |

分类

低压产品及系统 → 线路保护产品 → Miniature Circuit Breakers MCBs → 微型断路器

