



PRODUCT-DETAILS

# S803UE-K20

## S803UE-K20 High Performance MCB



| General Information   |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| Extended Product Type | S803UE-K20                                                                               |
| Product ID            | 2CCF020109R0001                                                                          |
| EAN                   | 7612271501648                                                                            |
| Catalog Description   | S803UE-K20 High Performance MCB                                                          |
| Long Description      | S803UE-K20 3Poles K Characteristic 20A 22kA 240VAC High Performance Circuit Breaker HPCB |

| ABB EcoSolutions                                  |                                                                |
|---------------------------------------------------|----------------------------------------------------------------|
| ABB EcoSolutions                                  | Yes                                                            |
| EcoSolutions Profile                              | 9AKK108471A1082                                                |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 86.29 % |
| ABB Site Meeting Group Waste To Landfill Target   | No non-hazardous waste is sent to a landfill                   |
| End Of Life Disassembling Instructions            | 9AKK108470A2575                                                |
| Environmental Product                             | 9AKK108470A1695,9AKK108470A1696                                |

## Declaration - EPD

**Technical**

|                                     |                                                                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Rated Operational Current ( $I_e$ ) | 20 A                                                                                                                 |
| Contact Position Indication         | ON / OFF / TRIP                                                                                                      |
| Energy Limiting Class               | 3                                                                                                                    |
| Number of Protected Poles           | 3                                                                                                                    |
| Number of Poles                     | 3P                                                                                                                   |
| Tightening Torque                   | 3.5 N·m                                                                                                              |
| Release Type                        | K                                                                                                                    |
| Actuator Marking                    | I / O                                                                                                                |
| Accessories Available               | Yes                                                                                                                  |
| Remarks                             | Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw |
| Connecting Capacity                 | Flexible 0...50 mm <sup>2</sup><br>Rigid 0...70 mm <sup>2</sup>                                                      |
| Terminal Type                       | Screw Terminals                                                                                                      |

**Electrical**

|                                               |                                                              |
|-----------------------------------------------|--------------------------------------------------------------|
| Tripping Characteristic                       | K                                                            |
| Rated Voltage ( $U_r$ )                       | acc. to UL489 240 V AC                                       |
| Rated Operational Voltage                     | 240 V AC                                                     |
| Rated Insulation Voltage ( $U_i$ )            | 690 V                                                        |
| Rated Impulse Withstand Voltage ( $U_{imp}$ ) | 8 kV                                                         |
| Input Voltage Type                            | AC                                                           |
| Rated Current ( $I_n$ )                       | 20 A                                                         |
| Frequency (f)                                 | 50...60 Hz                                                   |
| Rated Frequency (f)                           | 50...60 Hz                                                   |
| Power Loss                                    | Total 10.5 W<br>at Rated Operating Conditions per Pole 3.5 W |
| Overvoltage Category                          | IV                                                           |

**Technical UL/CSA**

|                                   |                  |
|-----------------------------------|------------------|
| Interrupting Rating acc. to UL489 | (240 V AC) 22 kA |
|-----------------------------------|------------------|

**Material Compliance**

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| RoHS Declaration  | 2CCC005116D0201                                                        |
| RoHS Information  | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date         | 20250625                                                               |
| REACH Declaration | 9AKK108470A9089                                                        |
| REACH Information | False - does not contain substances > 0.1 mass percentage              |
| REACH Date        | 20250313                                                               |

|                                             |                                                            |
|---------------------------------------------|------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                            |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B                              | Business To Business                                       |

### Environmental

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Ambient Temperature       | -25...60 °C                                                |
| Ambient Air Temperature   | Operation -25...60 °C                                      |
| Degree of Protection      | IP20                                                       |
| Pollution Degree          | 2                                                          |
| Resistance to Vibrations  | 1 mm 6 - 13.2 Hz<br>0.7g with Load 100% x le 13.2 - 100 Hz |
| Environmental Information | 2CCY413207D0202                                            |

### Dimensions

|                                     |          |
|-------------------------------------|----------|
| Width in Number of Modular Spacings | 4.5      |
| Product Net Width                   | 81 mm    |
| Product Net Height                  | 95 mm    |
| Product Net Depth / Length          | 82.5 mm  |
| Product Net Weight                  | 0.735 kg |
| Built-In Depth (t <sub>2</sub> )    | 82.5 mm  |

### Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 770 g       |

### Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CCC413009D0201 |
|--------------------------------|-----------------|

### Installation

|                          |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| Instructions and Manuals | 2CCC413040M0201                                                                                                |
| Mounting on DIN Rail     | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 |
| Mounting Position        | Any                                                                                                            |

### Popular Downloads

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| Data Sheet, Technical Information | 9AKK108468A9560<br>9AKK108468A9561<br>9AKK108468A9562 |
|-----------------------------------|-------------------------------------------------------|

| External Classifications and Standards |                                                        |  |
|----------------------------------------|--------------------------------------------------------|--|
| 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 |  |
| Object Classification Code             | F                                                      |  |
| Standards                              | UL489                                                  |  |

### Categories

Low Voltage Products and Systems → Modular DIN Rail Products → High Performance Circuit Breakers HPCBs → High Performance Circuit Breakers HPCBs - S800

