



PRODUCT-DETAILS

# S803U-K70

## S803U-K70 High Performance MCB



| General Information   |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Extended Product Type | S803U-K70                                                                                   |
| Product ID            | 2CCS863017R0707                                                                             |
| EAN                   | 7612271214340                                                                               |
| Catalog Description   | S803U-K70 High Performance MCB                                                              |
| Long Description      | S803U-K70 3 Pole K Characteristic 70A 50kA 240/415VAC 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**

|                                                             |                                                                     |
|-------------------------------------------------------------|---------------------------------------------------------------------|
| Type of Residual Current                                    | Standard Version                                                    |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (415 V AC) 50 kA                                                    |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (415 V AC) 40 kA                                                    |
| Contact Position Indication                                 | ON / OFF / TRIP                                                     |
| Energy Limiting Class                                       | 3                                                                   |
| Number of Protected Poles                                   | 3                                                                   |
| Number of Poles                                             | 3P                                                                  |
| Release Type                                                | K                                                                   |
| Actuator Marking                                            | I / O                                                               |
| Accessories Available                                       | Yes                                                                 |
| Connecting Capacity                                         | Flexible 0 ... 50 mm <sup>2</sup><br>Rigid 0 ... 70 mm <sup>2</sup> |

**Electrical**

|                                               |                                                              |
|-----------------------------------------------|--------------------------------------------------------------|
| Short-Circuit Current Rating (SCCR)           | (240 V AC) 50 kA                                             |
| Tripping Characteristic                       | K                                                            |
| Rated Operational Voltage                     | acc. to IEC 60947-2 415 V AC<br>UL489 240 V AC               |
| Rated Insulation Voltage ( $U_i$ )            | acc. to IEC/EN 60664-1 690 V                                 |
| Rated Impulse Withstand Voltage ( $U_{imp}$ ) | 8 kV                                                         |
| Input Voltage Type                            | AC                                                           |
| Rated Current ( $I_n$ )                       | 70 A                                                         |
| Frequency (f)                                 | 50/60 Hz                                                     |
| Rated Frequency (f)                           | 50/60 Hz                                                     |
| Power Loss                                    | Total 4.9 W<br>at Rated Operating Conditions per Pole 1.63 W |
| Overvoltage Category                          | III                                                          |

**Technical UL/CSA**

|                                   |                  |
|-----------------------------------|------------------|
| Interrupting Rating acc. to UL489 | (240 V AC) 50 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 Air Temperature   | Operation -25 ... +60 °C<br>Storage -40 ... +70 °C |
| Degree of Protection      | IP20                                               |
| Pollution Degree          | 2                                                  |
| Environmental Information | 2CCY413207D0203                                    |

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                  | 735 g           |
| Built-In Depth (t <sub>2</sub> )    | 82.5 mm         |
| Dimension Diagram                   | 2CCC413003C0201 |

Engineering

|            |                  |
|------------|------------------|
| EPLAN Data | 9AAF622564_EPLAN |
|------------|------------------|

Ordering

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

Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CCC413009D0201 |
| UL Certificate                 | 9AKK107680A2289 |

Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 2CCC413015M0403 |
|--------------------------|-----------------|

Popular Downloads

|                       |                 |
|-----------------------|-----------------|
| Data Sheet, Technical | 9AKK108468A9560 |
|-----------------------|-----------------|

Information

9AKK108468A9561  
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                              | UL 489                                                 |

Categories

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



360°

