

## PRODUCT-DETAILS

# FS451E-C20/0.03

## FS451E-C20/0.03 Residual Current Circuit Breaker with Overcurrent Protection



### General Information

|                       |                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | FS451E-C20/0.03                                                                                                          |
| Product ID            | 2CCL462110E0204                                                                                                          |
| EAN                   | 7612270108312                                                                                                            |
| Catalog Description   | FS451E-C20/0.03 Residual Current Circuit Breaker with Overcurrent Protection                                             |
| Long Description      | FS451E-C20/0.03 Residual Current Circuit Breaker with overcurrent Protection 2 Poles C Characteristic 20A 6000 ~230/400V |

### Technical

|                                               |                                                              |
|-----------------------------------------------|--------------------------------------------------------------|
| Standards                                     | IEC/EN 61009                                                 |
| Product Name                                  | Residual Current Circuit Breaker with Overcurrent Protection |
| Tripping Characteristic                       | C                                                            |
| Type of Residual Current                      | A Type                                                       |
| Rated Voltage ( $U_r$ )                       | 240 V                                                        |
| Rated Operational Voltage                     | 240 V AC                                                     |
| Rated Insulation Voltage ( $U_i$ )            | 500 V                                                        |
| Rated Impulse Withstand Voltage ( $U_{imp}$ ) | 4 kV                                                         |
| Input Voltage Type                            | AC                                                           |
| Rated Current ( $I_n$ )                       | 20 A                                                         |
| Rated Operational Current ( $I_e$ )           | 20 A                                                         |

|                                                                              |                                                                                 |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Rated Residual Current                                                       | 30 mA                                                                           |
| Rated Short-Circuit Capacity ( $I_{cn}$ )                                    | (240 V AC) 10 kA                                                                |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )                         | 10 kA                                                                           |
| Rated Service Short-Circuit Breaking Capacity, in % of $I_{cu}$ ( $I_{cs}$ ) | 10 kA                                                                           |
| Maximum Surge Current                                                        | 0.25 kA                                                                         |
| Leakage Current Type                                                         | A                                                                               |
| Frequency (f)                                                                | 50/60 Hz                                                                        |
| Rated Frequency (f)                                                          | 50...60 Hz                                                                      |
| Power Loss                                                                   | 5.5 W                                                                           |
| Energy Limiting Class                                                        | 3                                                                               |
| Number of Poles                                                              | 2                                                                               |
| Number of Protected Poles                                                    | 1                                                                               |
| Operating Characteristic                                                     | Instantaneous                                                                   |
| Overvoltage Category                                                         | III                                                                             |
| Position of Neutral Terminals                                                | Right                                                                           |
| Earthing Switch Type                                                         | Undelayed                                                                       |
| Release Type                                                                 | C                                                                               |
| Options Provided                                                             | Smissline Classic                                                               |
| Accessories Available                                                        | Yes                                                                             |
| Rated Cross-Section                                                          | 1 - Solid-Core 0...35 mm <sup>2</sup><br>4 - Multi-Wired 0...35 mm <sup>2</sup> |

## Environmental

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Ambient Temperature       | -25...40 °C                                                     |
| Ambient Air Temperature   | Operation -25...40 °C                                           |
| Degree of Protection      | IP20                                                            |
| Pollution Degree          | 2                                                               |
| RoHS Status               | Following EU Directive 2002/95/EC August 18, 2005 and amendment |
| Environmental Information | 2CCC404013D0201                                                 |

## Technical UL/CSA

|                                     |        |
|-------------------------------------|--------|
| Short-Circuit Current Rating (SCCR) | 0.03 A |
|-------------------------------------|--------|

## Dimensions

|                                     |           |
|-------------------------------------|-----------|
| Width in Number of Modular Spacings | 1         |
| Product Net Width                   | 36 mm     |
| Product Net Height                  | 87 mm     |
| Product Net Depth / Length          | 76 mm     |
| Product Net Weight                  | 210 g     |
| Product Net Length                  | 72 mm     |
| Size                                | 2 modules |
| Built-In Depth ( $t_2$ )            | 91 mm     |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Units          | carton 1 piece |
| Package Level 1 Width          | 97 mm          |
| Package Level 1 Height         | 45 mm          |
| Package Level 1 Depth / Length | 97 mm          |
| Package Level 1 Gross Weight   | 248 g          |
| Package Level 1 EAN            | 7612270108312  |

## Ordering

|                         |                  |
|-------------------------|------------------|
| Minimum Order Quantity  | 1 piece          |
| Customs Tariff Number   | 85362020         |
| E-Number (Switzerland)  | 809120832        |
| Country of Origin       | Switzerland (CH) |
| Selling Unit of Measure | piece            |

## Certificates and Declarations (Document Number)

|                                |                      |
|--------------------------------|----------------------|
| Declaration of Conformity - CE | 2CCC451036D0201      |
| Environmental Information      | 2CCC404013D0201      |
| Instructions and Manuals       | 9AKK107680A1666      |
| RoHS Information               | 2CCC413008D0206_RoHS |

## Popular Downloads

|                                   |                       |
|-----------------------------------|-----------------------|
| Data Sheet, Technical Information | 2CCC451027C0106 Ind B |
| Instructions and Manuals          | 9AKK107680A1666       |
| Dimension Diagram                 | 2CCC451027C0106 Ind B |

## Classifications

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| ETIM 6                     | EC000905 - Earth leakage circuit breaker                   |
| ETIM 7                     | EC000905 - Earth leakage circuit breaker                   |
| ETIM 8                     | EC000905 - Earth leakage circuit breaker                   |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B             | Business To Business                                       |
| CN8                        | 85362020                                                   |
| Object Classification Code | FB                                                         |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → SMISSLINE Classic

