



PRODUCT-DETAILS

# F202 B-16/0.03

## F202 B-16/0.03 Residual Current Circuit Breaker

### 2P Type B 30 mA



General Information

|                       |                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | F202 B-16/0.03                                                                                                                                                                                                    |
| Product ID            | 2CSF202568R1160                                                                                                                                                                                                   |
| EAN                   | 8012542341154                                                                                                                                                                                                     |
| Catalog Description   | F202 B-16/0.03 Residual Current Circuit Breaker 2P Type B 30 mA                                                                                                                                                   |
| Long Description      | The RCCBs F200 series assures protection to people and installations against fault current to earth. This product is manufactured according to international IEC standards, for the markets where it is required. |

ABB EcoSolutions

|                  |     |
|------------------|-----|
| ABB EcoSolutions | Yes |
|------------------|-----|

Circular Value

|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| Circular Design Principles | Design for Closing Resource Loops - Standard EN45555 - 51.4 % |
| Recyclability Rate         |                                                               |
| End of Life Instructions   | 9AKK108468A4363                                               |

|                                         |                 |
|-----------------------------------------|-----------------|
| <b>Eco Transparency</b>                 |                 |
| Environmental Product Declaration - EPD | 9AKK108467A3700 |

|                                                            |                                                                                                                                                         |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical</b>                                           |                                                                                                                                                         |
| Standards                                                  | IEC/EN 61008                                                                                                                                            |
| Type of Residual Current                                   | Type B                                                                                                                                                  |
| Rated Voltage (U <sub>r</sub> )                            | 230 V                                                                                                                                                   |
| Rated Operational Voltage                                  | 230 V                                                                                                                                                   |
| Rated Insulation Voltage (U <sub>i</sub> )                 | 440 V                                                                                                                                                   |
| Test Voltage (U <sub>t</sub> )                             | 170-253 V AC                                                                                                                                            |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )        | 4 kV                                                                                                                                                    |
| Dielectric Test Voltage                                    | 2500 V                                                                                                                                                  |
| Input Voltage Type                                         | AC                                                                                                                                                      |
| Rated Current (I <sub>n</sub> )                            | 16 A                                                                                                                                                    |
| Rated Residual Current                                     | 30 mA                                                                                                                                                   |
| Rated Residual Breaking Capacity (I <sub>Δm</sub> )        | 1 kA                                                                                                                                                    |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> ) | (Typ gG/gLfuse, 500 V) 100 A<br>Selective MCB S750-E 63A or S750DR-E/K 100 A                                                                            |
| Impulse Current                                            | I (max, 8 / 20 μs) 3000 A                                                                                                                               |
| Maximum Surge Current                                      | 3 kA                                                                                                                                                    |
| Rated Frequency (f)                                        | 50 ... 60 Hz                                                                                                                                            |
| Power Loss                                                 | 0.82 W                                                                                                                                                  |
| Electrical Endurance                                       | 10000 cycle                                                                                                                                             |
| Mechanical Endurance                                       | 20000 cycle                                                                                                                                             |
| Number of Poles                                            | 2                                                                                                                                                       |
| Number of Modular Spacings per DIN Rail                    | 2                                                                                                                                                       |
| Operating Characteristic                                   | Instantaneous (APR High Immunity)                                                                                                                       |
| Overvoltage Category                                       | III                                                                                                                                                     |
| Tightening Torque                                          | 2.8 N·m                                                                                                                                                 |
| Delay Time (T)                                             | 10 ms                                                                                                                                                   |
| Accessory Type                                             | Auxiliary contact, Signal contact/auxiliary contact, Shunt trip, Undervoltage release, Overvoltage release, Motor operating device, Auto reclosing unit |
| Mounting Type                                              | DIN-Rail                                                                                                                                                |
| Screw Terminal Type                                        | Failsafe Bi-directional Cylinder-lift Terminal                                                                                                          |
| Options Provided                                           | None                                                                                                                                                    |
| Mounting Position                                          | Any                                                                                                                                                     |
| Accessories Available                                      | Yes                                                                                                                                                     |
| Number of Batteries                                        | 0                                                                                                                                                       |
| Cable Size                                                 | 25 mm²                                                                                                                                                  |
| Connecting Capacity                                        | Busbar 10 mm²<br>Flexible 1 ... 25 mm²<br>Stranded 1 ... 25 mm²                                                                                         |
| Rated Cross-Section                                        | 1 - Solid-Core 1 ... 25 mm²                                                                                                                             |
| Wire Stripping Length                                      | 12 mm                                                                                                                                                   |
| Terminal Type                                              | Screw Terminals                                                                                                                                         |

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Material Compliance</b> |                                                                        |
| RoHS Information           | 9AKK106713A5610                                                        |
| RoHS Status                | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date                  | 20211115                                                               |
| REACH Declaration          | 9AKK108467A9482                                                        |

|                                                   |                 |
|---------------------------------------------------|-----------------|
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108468A3363 |
|---------------------------------------------------|-----------------|

Environmental

|                                               |                                                           |
|-----------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                       | Operation -25 ... +70 °C                                  |
| Degree of Protection                          | Housing IPX4<br>Terminals IP2X                            |
| Pollution Degree                              | 3                                                         |
| Environmental Conditions                      | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| Resistance to Vibrations                      | 20 Cycles with Load 0.8 In: 1g or 1mm 50 ... 150 ... 5 Hz |
| Resistance to Shock acc.<br>to IEC 60068-2-27 | 25g 2 shocks 13 ms                                        |

Dimensions

|                                        |          |
|----------------------------------------|----------|
| Width in Number of<br>Modular Spacings | 2        |
| Product Net Width                      | 35 mm    |
| Product Net Height                     | 85 mm    |
| Product Net Depth /<br>Length          | 69 mm    |
| Product Net Weight                     | 0.220 kg |
| Built-In Depth (t <sub>2</sub> )       | 69 mm    |

Ordering

|                                 |             |
|---------------------------------|-------------|
| Package Level 1 Units           | box 1 piece |
| Package Level 1 Gross<br>Weight | 0.236 kg    |
| E-Number (Finland)              | 3214055     |
| E-Number (Sweden)               | 2160146     |

Certificates and Declarations

|                                   |                 |
|-----------------------------------|-----------------|
| Declaration of Conformity<br>- CE | 9AKK106713A5610 |
|-----------------------------------|-----------------|

Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 9AKK107992A0195 |
|--------------------------|-----------------|

Popular Downloads

|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 9AKK107991A7569 |
|--------------------------------------|-----------------|

Classifications

|               |                                                            |
|---------------|------------------------------------------------------------|
| ETIM 8        | EC000003 - Residual current circuit breaker (RCCB)         |
| ETIM 9        | EC000003 - Residual current circuit breaker (RCCB)         |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

|                            |                      |
|----------------------------|----------------------|
| WEEE B2C / B2B             | Business To Consumer |
| CN8                        | 85363030             |
| eClass                     | V11.0 : 27142201     |
| Object Classification Code | F                    |

## Accessories

| Identifier      | Description                                  | Type          | Quantity | Unit Of Measure |
|-----------------|----------------------------------------------|---------------|----------|-----------------|
| 2CDS200912R0001 | S2C-H6R Auxiliary Contact                    | S2C-H6R       | 2        | piece           |
| 2CDS200922R0001 | S2C-S/H6R Signal / Auxiliary Contact         | S2C-S/H6R     | 2        | piece           |
| 2CDS200946R0001 | S2C-H6-11R Auxiliary Contact                 | S2C-H6-11R    | 1        | piece           |
| 2CDS200946R0003 | S2C-H6-02R Auxiliary Contact                 | S2C-H6-02R    | 1        | piece           |
| 2CDS200946R0002 | S2C-H6-20R Auxiliary Contact                 | S2C-H6-20R    | 1        | piece           |
| 2CSS200933R0011 | F2C-A1 Shunt trip                            | F2C-A1        | 1        | piece           |
| 2CSS200933R0012 | F2C-A2 Shunt trip                            | F2C-A2        | 1        | piece           |
| 2CSS200911R0005 | S2C-UA 230 AC Undervoltage Release           | S2C-UA 230 AC | 1        | piece           |
| 2CSS200911R0007 | S2C-UA 24 DC Undervoltage Release            | S2C-UA 24 DC  | 1        | piece           |
| 2CSS200911R0002 | S2C-UA 24 AC Undervoltage Release            | S2C-UA 24 AC  | 1        | piece           |
| 2CSS200911R0008 | S2C-UA 48 DC Undervoltage Release            | S2C-UA 48 DC  | 1        | piece           |
| 2CSS200911R0004 | S2C-UA 110 AC Undervoltage Release           | S2C-UA 110 AC | 1        | piece           |
| 2CSS200911R0006 | S2C-UA 400 AC Undervoltage Release           | S2C-UA 400 AC | 1        | piece           |
| 2CSS200911R0001 | S2C-UA 12 DC Undervoltage Release            | S2C-UA 12 DC  | 1        | piece           |
| 2CSS200911R0010 | S2C-UA 230 DC Undervoltage Release           | S2C-UA 230 DC | 1        | piece           |
| 2CSS200911R0009 | S2C-UA 110 DC Undervoltage Release           | S2C-UA 110 DC | 1        | piece           |
| 2CSS200911R0003 | S2C-UA 48 AC Undervoltage Release            | S2C-UA 48 AC  | 1        | piece           |
| 2CSS200910R0005 | S2C-OVP1 Overvoltage Release                 | S2C-OVP1      | 1        | piece           |
| 2CSS200993R0005 | S2C-OVP2 Overvoltage Release                 | S2C-OVP2      | 1        | piece           |
| 2CSF200997R0013 | F2C-CM Motor operating device                | F2C-CM        | 1        | piece           |
| 2CSF200996R0013 | F2C-ARI Auto-reclosing unit                  | F2C-ARI       | 1        | piece           |
| 2CSF200995R0013 | F2C-ARI30 Auto-reclosing unit                | F2C-ARI30     | 1        | piece           |
| 2CSF200992R0005 | F2C-ARH Auto-reclosing unit                  | F2C-ARH       | 1        | piece           |
| 2CSF200991R0005 | F2C-ARH -T Auto-reclosing unit with autotest | F2C-ARH -T    | 1        | piece           |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Residual Current Devices RCDs → Residual Current Devices RCDs

