

## PRODUCT-DETAILS

# F202 B-40/0.03

## F202 B-40/0.03 Residual Current Circuit Breaker 2P B type 30 mA



### General Information

|                       |                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | F202 B-40/0.03                                                                                                                                                                                                    |
| Product ID            | 2CSF202568R1400                                                                                                                                                                                                   |
| EAN                   | 8012542341352                                                                                                                                                                                                     |
| Catalog Description   | F202 B-40/0.03 Residual Current Circuit Breaker 2P B type 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. |

### Circular Value

|                                                  |                                                               |
|--------------------------------------------------|---------------------------------------------------------------|
| Circular Design Principles<br>Recyclability Rate | Design for Closing Resource Loops - Standard EN45555 - 51,4 % |
| Sustainable Material<br>Content                  | 0 %                                                           |
| End of Life Instructions                         | 9AKK108468A4363                                               |

### Eco Transparency

|                                            |                 |
|--------------------------------------------|-----------------|
| Environmental Product<br>Declaration - EPD | 9AKK108467A3700 |
|--------------------------------------------|-----------------|

## Technical

|                                                      |                                                                                                                                                         |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                            | IEC/EN 61008                                                                                                                                            |
| Type of Residual Current                             | B type                                                                                                                                                  |
| Rated Voltage ( $U_r$ )                              | 230 V                                                                                                                                                   |
| Rated Operational Voltage                            | 230 V                                                                                                                                                   |
| Rated Insulation Voltage ( $U_i$ )                   | 440 V                                                                                                                                                   |
| Test Voltage ( $U_t$ )                               | 170-253 V AC                                                                                                                                            |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )        | 4 kV                                                                                                                                                    |
| Dielectric Test Voltage                              | 2500 V                                                                                                                                                  |
| Input Voltage Type                                   | AC                                                                                                                                                      |
| Rated Current ( $I_n$ )                              | 40 A                                                                                                                                                    |
| Rated Residual Current                               | 30 mA                                                                                                                                                   |
| Rated Residual Breaking Capacity ( $I_{\Delta m}$ )  | 1 kA                                                                                                                                                    |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ ) | 10 kA                                                                                                                                                   |
| Impulse Current                                      | I (max, 8 / 20 $\mu$ s) 3000 A                                                                                                                          |
| Maximum Surge Current                                | 3 kA                                                                                                                                                    |
| Rated Frequency (f)                                  | 50 ... 60 Hz                                                                                                                                            |
| Power Loss                                           | 3.60 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 mm <sup>2</sup>                                                                                                                                      |
| Connecting Capacity                                  | Busbar 10 mm <sup>2</sup><br>Flexible 1 ... 25 mm <sup>2</sup><br>Stranded 1 ... 25 mm <sup>2</sup>                                                     |
| Rated Cross-Section                                  | 1 - Solid-Core 1 ... 25 mm <sup>2</sup>                                                                                                                 |
| Wire Stripping Length                                | 12 mm                                                                                                                                                   |
| Terminal Type                                        | Screw Terminals                                                                                                                                         |

## Environmental

|                         |                                |
|-------------------------|--------------------------------|
| Ambient Air Temperature | Operation -25 ... +70 °C       |
| Degree of Protection    | Housing IPX4<br>Terminals IP2X |
| Pollution Degree        | 3                              |

## Environmental Conditions

28 cycles  
with 55 °C / 90-96 %  
and 25 °C / 95-100 %

Resistance to Vibrations  
acc. to IEC 60068-2-6

0.1 mm or 1 g - 20 cycles at 5...150...5 Hz

Resistance to Shock acc.  
to IEC 60068-2-27

25g 2 shocks 13 ms

RoHS Status

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

RoHS Information

9AKK106713A5610

REACH Declaration

9AKK108467A9482

Conflict Minerals  
Reporting Template  
(CMRT)

9AKK108468A3363

## Dimensions

Width in Number of  
Modular Spacings

2

Product Net Width

35 mm

Product Net Height

85 mm

Product Net Depth /  
Length

69 mm

Product Net Weight

0.220 kg

Built-In Depth (t<sub>2</sub>)

69 mm

## Ordering

Minimum Order Quantity

1 piece

Package Level 1 Units

box 1 piece

Package Level 1 Gross  
Weight

0.236 kg

Customs Tariff Number

85363030

E-Number (Finland)

3214057

E-Number (Sweden)

2160148

Country of Origin

Italy (IT)

## Certificates and Declarations

Declaration of Conformity  
- CE

9AKK106713A5610

## Popular Downloads

Data Sheet, Technical  
Information

9AKK107991A7569

Instructions and Manuals

9AKK107992A0195

## 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

