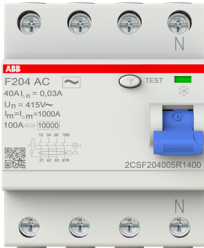




PRODUCT-DETAILS

# F204 AC-40/0.03 IEC

## Residual Current Circuit Breaker F200 - 4P - 30 mA - 40 A - Type AC



| General Information   |                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | F204 AC-40/0.03 IEC                                                                                                                                                                                               |
| Product ID            | 2CSF204005R1400                                                                                                                                                                                                   |
| EAN                   | 8012542817208                                                                                                                                                                                                     |
| Catalog Description   | Residual Current Circuit Breaker F200 - 4P - 30 mA - 40 A - Type AC                                                                                                                                               |
| 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                                                                                                 |
| EcoSolutions Profile                              | 9AKK108469A3794                                                                                     |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 82.05 %                                      |
| ABB Site Meeting Group Waste To Landfill Target   | No non-hazardous waste is sent to a landfill<br>UL 2799 Zero Waste To Landfill Validation available |
| Sustainable Material Content in Packaging (wt. %) | Recycled Paper - 0 %<br>Recycled Paper - 3.91 %<br>Recycled Cardboard - 29.08 %                     |

|                                         |                                                             |
|-----------------------------------------|-------------------------------------------------------------|
|                                         | Recycled Cardboard - 61.23 %<br>Recycled Cardboard - 2.66 % |
| Extended Product Lifetime               | Product Durability                                          |
| Offered with Takeback Services          | Take Back for Recycling                                     |
| End Of Life Disassembling Instructions  | 9AKK108470A1748                                             |
| Environmental Product Declaration - EPD | 9AKK108469A9642                                             |

## Technical

|                                         |                                                                                                                                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Residual Current                | Type AC                                                                                                                                                                                        |
| Test Voltage (U <sub>t</sub> )          | 170-254 V                                                                                                                                                                                      |
| Maximum Surge Current                   | 0.25 kA                                                                                                                                                                                        |
| Leakage Current Type                    | AC                                                                                                                                                                                             |
| Power Supply Connection                 | Arbitrary                                                                                                                                                                                      |
| Electrical Endurance                    | 10000 cycle                                                                                                                                                                                    |
| Mechanical Endurance                    | 20000 cycle                                                                                                                                                                                    |
| Number of Poles                         | 4P                                                                                                                                                                                             |
| Number of Modular Spacings per DIN Rail | 4                                                                                                                                                                                              |
| Operating Characteristic                | Instantaneous                                                                                                                                                                                  |
| Position of Neutral Terminals           | Right                                                                                                                                                                                          |
| Tightening Torque                       | 2.8 N·m                                                                                                                                                                                        |
| Accessory Type                          | Auxiliary contact<br>Auxiliary/Signal contact<br>Shunt trip<br>Undervoltage release<br>Overvoltage release<br>Motor Operating Device<br>Bottom fitting auxiliary contact<br>Autoreclosing Unit |
| Screw Terminal Type                     | Failsafe Bi-directional Cylinder-lift Terminal<br>Cage Terminal<br>Failsafe Biconnect Fork Top/Bottom<br>Failsafe Biconnect Fork Bottom                                                        |
| Options Provided                        | None                                                                                                                                                                                           |
| Accessories Available                   | Yes                                                                                                                                                                                            |
| Connecting Capacity                     | Busbar 10 mm <sup>2</sup><br>Rigid 25 ... 25 mm <sup>2</sup><br>Flexible 25 ... 25 mm <sup>2</sup>                                                                                             |
| Rated Cross-Section                     | 4 - Multi-Wired 0...25 mm <sup>2</sup><br>1 - Solid-Core 25...25 mm <sup>2</sup>                                                                                                               |
| Wire Stripping Length                   | 12 mm                                                                                                                                                                                          |
| Terminal Type                           | Screw Terminals                                                                                                                                                                                |

## Electrical

|                                            |                  |
|--------------------------------------------|------------------|
| Rated Voltage (U <sub>r</sub> )            | 230/400 V        |
| Rated Operational Voltage                  | 230 ... 400 V AC |
| Rated Insulation Voltage (U <sub>i</sub> ) | 500 V            |
| Rated Impulse                              | 4 kV             |

Withstand Voltage ( $U_{imp}$ )

|                                                      |                                                             |
|------------------------------------------------------|-------------------------------------------------------------|
| Input Voltage Type                                   | AC                                                          |
| Rated Current ( $I_n$ )                              | 40 A                                                        |
| Rated Residual Current                               | 30 mA                                                       |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ ) | 10 kA                                                       |
| Frequency (f)                                        | 50/60 Hz                                                    |
| Rated Frequency (f)                                  | 50 ... 60 Hz                                                |
| Power Loss                                           | at Rated Operating Conditions per Pole 3.2 W<br>Total 9.6 W |

## Design

|                   |   |
|-------------------|---|
| Number of Modules | 4 |
|-------------------|---|

## Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| RoHS Declaration                            | 9AKK106713A5602                                                        |
| RoHS Information                            | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date                                   | 20211115                                                               |
| REACH Declaration                           | 9AKK108467A9482                                                        |
| REACH Information                           | True - contains substances > 0.1 mass percentage                       |
| REACH Date                                  | 20240429                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                                        |
| SCIP                                        | e8229506-bdcb-47ec-b10f-6ae72c1a19bf Italy                             |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm)             |
| WEEE B2C / B2B                              | Business To Consumer                                                   |

## Environmental

|                                            |                                                          |
|--------------------------------------------|----------------------------------------------------------|
| Ambient Air Temperature                    | Operation -25 ... 55 °C<br>Storage -40 ... 70 °C         |
| Degree of Protection                       | Terminals IP20<br>Housing IP40                           |
| Pollution Degree                           | 2                                                        |
| Resistance to Vibrations                   | 20 Cycles with Load 0.8 In: 1g or 1mm 5 ... 150 ... 5 Hz |
| Resistance to Shock acc. to IEC 60068-2-27 | 25g 2 shocks 13 ms                                       |
| Environmental Information                  | Refer to RoHS                                            |

## Dimensions

|                                     |       |
|-------------------------------------|-------|
| Width in Number of Modular Spacings | 4     |
| Product Net Width                   | 70 mm |
| Product Net Height                  | 85 mm |
| Product Net Depth / Length          | 69 mm |
| Product Net Weight                  | 360 g |
| Built-In Depth ( $t_2$ )            | 69 mm |

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## Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 0.415 kg    |

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## Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 9AKK106713A5602 |
|--------------------------------|-----------------|

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## Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 9AKK107991A6127 |
| Mounting Type            | DIN-Rail        |
| Mounting Position        | Any             |

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## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK107991A8329 |
|-----------------------------------|-----------------|

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## External Classifications and Standards

|                                    |                                                    |
|------------------------------------|----------------------------------------------------|
| ETIM 9                             | EC000003 - Residual current circuit breaker (RCCB) |
| ETIM 10                            | EC000003 - Residual current circuit breaker (RCCB) |
| eClass                             | V11.0 : 27142201                                   |
| IDEA Granular Category Code (IGCC) | 4875 >> Residual current circuit breaker (RCCB)    |
| Object Classification Code         | F                                                  |
| Standards                          | IEC 61008                                          |

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## Accessories

| Identifier      | Description                              | Type          | Quantity | Unit Of Measure |
|-----------------|------------------------------------------|---------------|----------|-----------------|
| 2CDS200912R0001 | S2C-H6R Auxiliary Contact 1CO            | S2C-H6R       | 2        | piece           |
| 2CDS200922R0001 | S2C-S/H6R Universal Auxiliary/Signal Con | S2C-S/H6R     | 2        | piece           |
| 2CDS200946R0001 | S2C-H6-11R Auxiliary contact 1NO/1NC     | S2C-H6-11R    | 1        | piece           |
| 2CDS200946R0003 | S2C-H6-02R Auxiliary contact 2NC         | S2C-H6-02R    | 1        | piece           |
| 2CDS200946R0002 | S2C-H6-20R Auxiliary contact 2NO         | S2C-H6-20R    | 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           |
| 2CSF201998R0034 | Autoreclosing unit F3C-AR                | F3C-AR24      | 1        | piece           |
| 2CSF202998R0034 | Autoreclosing unit F3C-AR                | F3C-AR230     | 1        | piece           |
| 2CSS201998R0033 | S3C-MOD24 Motor Operating Device         | S3C-MOD24     | 1        | piece           |
| 2CSS202998R0033 | S3C-MOD230 Motor Operating Device        | S3C-MOD230    | 1        | piece           |

Categories

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

