



 PRODUCT-DETAILS

F204 AC-80/0.3

Residual Current Circuit Breaker - 4P - Type AC - 300 mA - 80 A



General Information

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| Extended Product Type | F204 AC-80/0.3 |
| Product ID | 2CSF204001R3800 |
| EAN | 8012542917007 |
| Catalog Description | Residual Current Circuit Breaker - 4P - Type AC - 300 mA - 80 A |
| Long Description | The RCCBs F200 series assures protection to people and installations against fault current to earth. A large offer for standard instantaneous and selective AC and A types is completed with some configurations for special applications. |

ABB EcoSolutions

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|---|---|
| ABB EcoSolutions | Yes |
| EcoSolutions Profile | 9AKK108469A3794 |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 52.5 % |
| ABB Site Meeting Group Waste To Landfill Target | No non-hazardous waste is sent to a landfill |
| Sustainable Material Content in Packaging (wt. %) | Recycled Paper - 78 % |
| Extended Product Lifetime | Product Durability |
| End Of Life Disassembling | 9AKK108468A4361 |

Instructions

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| Environmental Product Declaration - EPD | 9AKK108467A3700 |
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Technical

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| Type of Residual Current | Type AC |
| Test Voltage (U _t) | 110-254 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 Auxiliary/Signal contact Shunt trip Undervoltage release Overvoltage release Motor Operating Device Bottom fitting auxiliary contact Autoreclosing Unit |
| Screw Terminal Type | Failsafe Bi-directional Cylinder-lift Terminal Cage Terminal Failsafe Biconnect Fork Top/Bottom Failsafe Biconnect Fork Bottom |
| Options Provided | None |
| Accessories Available | Yes |
| Connecting Capacity | Busbar 10 mm ² Rigid 35 ... 35 mm ² Flexible 35 ... 35 mm ² |
| Rated Cross-Section | 4 - Multi-Wired 0...35 mm ² 1 - Solid-Core 35...35 mm ² |
| Wire Stripping Length | Top 12.7 mm Bottom 14.9 mm |
| Terminal Type | Screw Terminals |

Electrical

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| Rated Voltage (U _r) | 230/400 V |
| Rated Operational Voltage | 230 / 400 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) | 80 A |
| Rated Residual Current | 300 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 5.3 W Total 15.9 W |

Technical UL/CSA

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|----------------------------------|-----------------|
| Maximum Operating Voltage UL/CSA | 480Y / 277 V AC |
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Material Compliance

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| RoHS Information | 9AKK106713A5602 |
| RoHS Status | 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

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|--|--|
| Ambient Air Temperature | Operation -25 ... 55 °C Storage -40 ... 70 °C |
| Degree of Protection | Terminals IP20 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

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| 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 | 380 g |
| Built-In Depth (t ₂) | 69 mm |

Engineering

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| EPLAN Data | 9AAC202084 EPLAN |
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Ordering

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

Certificates and Declarations

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| Declaration of Conformity - CE | 9AKK106713A5602 |
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Installation

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

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK107991A8329 |
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External Classifications and Standards

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|------------------------------------|--|
| ETIM 9 | EC000003 - Residual current circuit breaker (RCCB) |
| UNSPSC | 39121601 |
| eClass | V11.0 : 27142201 |
| IDEA Granular Category Code (IGCC) | 4875 >> Residual current circuit breaker (RCCB) |
| Object Classification Code | F |
| Standards | IEC/EN 61008 UL 1053 |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|------------------------------|---------------|----------|-----------------|
| 2CDS200912R0001 | Auxiliary Contact | S2C-H6R | 2 | piece |
| 2CDS200922R0001 | Signal/Auxiliary Contact | S2C-S/H6R | 2 | piece |
| 2CDS200946R0001 | Auxiliary Contact | S2C-H6-11R | 1 | piece |
| 2CDS200946R0003 | Auxiliary Contact | S2C-H6-02R | 1 | piece |
| 2CDS200946R0002 | Auxiliary Contact | S2C-H6-20R | 1 | piece |
| 2CSS200911R0005 | Undervoltage Release | S2C-UA 230 AC | 1 | piece |
| 2CSS200911R0007 | Undervoltage Release | S2C-UA 24 DC | 1 | piece |
| 2CSS200911R0002 | Undervoltage Release | S2C-UA 24 AC | 1 | piece |
| 2CSS200911R0008 | Undervoltage Release | S2C-UA 48 DC | 1 | piece |
| 2CSS200911R0004 | Undervoltage Release | S2C-UA 110 AC | 1 | piece |
| 2CSS200911R0006 | Undervoltage Release | S2C-UA 400 AC | 1 | piece |
| 2CSS200911R0001 | Undervoltage Release | S2C-UA 12 DC | 1 | piece |
| 2CSS200911R0010 | Undervoltage Release | S2C-UA 230 DC | 1 | piece |
| 2CSS200911R0009 | Undervoltage Release | S2C-UA 110 DC | 1 | piece |
| 2CSS200911R0003 | Undervoltage Release | S2C-UA 48 AC | 1 | piece |
| 2CSS200910R0005 | Overvoltage Release | S2C-OVP1 | 1 | piece |
| 2CSS200993R0005 | Overvoltage Release | S2C-OVP2 | 1 | piece |
| 2CSF201998R0034 | F3C-AR24 Autoreclosing unit | F3C-AR24 | 1 | piece |
| 2CSF202998R0034 | F3C-AR230 Autoreclosing unit | F3C-AR230 | 1 | piece |
| 2CSS201998R0033 | Motor Operating Device | S3C-MOD24 | 1 | piece |
| 2CSS202998R0033 | 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



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