PRODUCT-DETAILS

# FMF225/AC30

## FMF225/AC30 Residual Current Circuit Breaker



### General Information

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|---|---|
| **Extended Product Type:** | FMF225/AC30 |
| **Product ID:** | 2CSF602088R1250 |
| **EAN:** | 8012542844853 |
| **Catalog Description:** | FMF225/AC30 Residual Current Circuit Breaker |
| **Long Description:** | Residual Current Circuit Breakers (RCCB), ensure protection against earth leakage due to direct and indirect contacts. Thus, they prevent accidental electrical shocks for humans. The RCCB offers sensitivity levels of 10mA, 30mA, 100mA, and 300mA in type A and AC, available in both 2-pole and 4-pole con[1]figurations. With a current rating of up to 63A, this product fully meets the requirements for residential applications, ensuring both safety and compliance in typical household settings. |
| **Display Name:** | FMF225/AC30 |

### ABB EcoSolutions

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|---|---|
| **ABB EcoSolutions Profile:** | 9AKK108471A9524 |
| **Recyclability Rate of the Product acc. to EN45555:** | Design for Closing Resource Loops - Standard EN45555 - 80.24 % |

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| **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 - 0 %<br>Recycled Cardboard - 25 %<br>Recycled Cardboard - 50 % |
| **Extended Product Lifetime:** | Product Durability is Enhanced |
| **End Of Life Disassembling Instructions:** | 9AKK108471A8603 |
| **Environmental Product Declaration - EPD:** | 9AKK108471A8566 |

## Technical

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|---|---|
| **Type of Residual Current:** | Type AC |
| **Rated Service Short-Circuit Breaking Capacity ($I_{cs}$):** | 6 kA |
| **Maximum Surge Current:** | 250 A |
| **Leakage Current Type:** | AC |
| **Electrical Endurance:** | 5000 cycle |
| **Mechanical Endurance:** | 5000 cycle |
| **Number of Protected Poles:** | 2 |
| **Number of Poles:** | 2P |
| **Operating Characteristic:** | Instantaneous |
| **Tightening Torque:** | 2 N·m |
| **Screw Terminal Type:** | Cage Terminal |
| **Actuator Marking:** | I / O |
| **Recommended Screw Driver:** | Pozidriv 2 |
| **Accessories Available:** | No |
| **Number of Batteries:** | 0 |
| **Connecting Capacity:** | Rigid Solid 35 / 35 mm²<br>Rigid Stranded 35 / 35 mm²<br>Flexible 25 / 25 mm²<br>Busbar 10 … 10 mm² |
| **Wire Stripping Length:** | 12.5 mm |
| **Terminal Type:** | Screw Terminals |
| **Actuator Type:** | Toggle |

## Electrical

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|---|---|
| **Rated Voltage ($U_r$):** | 230 V |
| **Rated Operational Voltage:** | 230 V |
| **Rated Insulation Voltage ($U_i$):** | 500 V AC |
| **Rated Impulse Withstand Voltage ($U_{imp}$):** | 4 kV |
| **Rated Current ($I_n$):** | 25 A |
| **Rated Residual Current:** | 30 mA |
| **Rated Frequency (f):** | 50 Hz |

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## Design

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| **Housing Material:** | Insulation Group II, RAL 7035 |

## Material Compliance

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|---|---|
| **RoHS Declaration:** | 9AKK108471A8574 |
| **RoHS Information:** | Following EU Directive 2011/65/EU |
| **RoHS Date:** | 20251008 |
| **REACH Declaration:** | 9AKK108467A9482 |
| **REACH Information:** | True - contains substances > 0.1 mass percentage |
| **REACH Date:** | 20250730 |
| **Conflict Minerals Reporting Template (CMRT):** | 9AKK108468A3363 |
| **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 -5 ... +55 °C<br>Storage -40 ... +70 °C |
| **Reference Ambient Air Temperature:** | 30 °C |
| **Degree of Protection:** | IP20<br>Enclosure with Cover IP40 |
| **Pollution Degree:** | 2 |

## Dimensions

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|---|---|
| **Width in Number of Modular Spacings:** | 2 |
| **Product Net Width:** | 35 mm |
| **Product Net Height:** | 88 mm |
| **Product Net Depth / Length:** | 69 mm |
| **Product Net Weight:** | 0.150 kg |
| **Built-In Depth ($t_2$):** | 69 mm |
| **Dimension Diagram:** | 9AKK108471A5253 |

## Engineering

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|---|---|
| **CAD Dimensional Drawing:** | 9AKK108471A8446 |

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## Ordering

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|---|---|
| **Package Level 1 Units:** | box 1 piece |
| **Package Level 1 Gross Weight:** | 225 g |

## Certificates and Declarations

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|---|---|
| **Declaration of Conformity - CE:** | No declaration needed |
| **TSE Certificate:** | 9AKK108473A0618 |

## Installation

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|---|---|
| **Mounting Type:** | DIN_Rail |
| **Mounting on DIN Rail:** | 35 mm acc. to EN60715 |

## Popular Downloads

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|---|---|
| **Data Sheet, Technical Information:** | 9AKK108471A8226 |

## External Classifications and Standards

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|---|---|
| **ETIM 9:** | EC000003 - Residual current circuit breaker (RCCB) |
| **ETIM 10:** | EC000003 - Residual current circuit breaker (RCCB) |
| **Standards:** | IEC/EN 61008-1 |

## Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > Formula Din Rail > Residual Current Circuit Breakers, Formula Din Rail










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