

Specifications

Eaton 171001

Eaton Moeller series xEffect - FRBm4 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 25A, 30mA, MCB trip type C, 3-phase+N, RCCB trip type: A

General specifications

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| PRODUCT NAME | Eaton Moeller series xEffect - FRBm4 RCBO - residual-current circuit breaker with overcurrent protection |
| CATALOG NUMBER | 171001 |
| MODEL CODE | FRBM4-C25/3N/003-A |
| EAN | 4015081671229 |
| PRODUCT LENGTH/DEPTH | 80 mm |
| PRODUCT HEIGHT | 75.5 mm |
| PRODUCT WIDTH | 70 mm |
| PRODUCT WEIGHT | 0.445 kg |
| COMPLIANCES | CE Marked RoHS conform |
| CERTIFICATIONS | CE EN45545-2 IEC 61373 |
| GLOBAL CATALOG | 171001 |
| PRODUCT TYPE | RCBO - Residual-current circuit breaker with overcurrent protection |



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Product specifications

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| AMPERAGE RATING | 25 A |
| VOLTAGE RATING | 415 V - 415 V |
| SURGE CURRENT CAPACITY | 0.25 kA |
| VOLTAGE TYPE | AC |
| WIDTH IN NUMBER OF MODULAR SPACINGS | 4 |
| FEATURES | Concurrently switching N-neutral |
| OPERATING AMBIENT TEMPERATURE - MAX | 40 °C |
| OPERATING AMBIENT TEMPERATURE - MIN | -25 °C |
| PRODUCT RANGE | FRBm4 |
| RATED CURRENT | 25 A |
| RATED FAULT CURRENTS OF PRODUCT RANGE | 30, 100, 300 MilliAmpere |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 25 A |
| RATED SWITCHING CAPACITY (IEC/EN 61009) | 4.5 kA |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT | 0 W |
| TRIPPING CHARACTERISTIC | C |
| BUILT-IN DEPTH | 75.5 mm |
| CURRENT LIMITING CLASS | 3 |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2) | 0 kA |
| AMBIENT OPERATING TEMPERATURE - MAX | 40 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| FAULT CURRENT RATING | 0.03 A |
| HEAT DISSIPATION CAPACITY | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT | 0 W |
| NUMBER OF POLES (PROTECTED) | 4 |
| NUMBER OF POLES (TOTAL) | 4 |

Resources

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| BROCHURES | eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf |
| CATALOGS | eaton-xeffect-frbm4-rcbo-catalog-ca003016en-en-us.pdf eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-eu250101en.pdf eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-uk251478en.pdf |
| DECLARATIONS OF CONFORMITY | eaton-xeffect-frbm6m-dimensions-004.jpg Dimension xEffect FRBm4/FRBm6 3N eaton-xeffect-frbm6m-wiring-diagram-002.jpg eaton-xeffect-frbm6m-characteristic-curve-002.jpg |
| DRAWINGS | ETN.FRBM4-C25_3N_003-A.edz |
| ECAD MODEL | eaton-rccb-rcbo-g9-il019140zu.pdf |
| INSTALLATION INSTRUCTIONS | eaton-rcd-with-overcurrent-protection-3d-models-frbm-3n-rcbo.stp |
| MCAD MODEL | eaton-rcd-with-overcurrent-protection-drawings-frbm-3n-rcbo.dwg |
| PEP ECO-PASSPORT | eaton-rcd-with-overcurrent-protection-pep-eato-00113-v0101-en.pdf |
| SPECIFICATIONS AND DATASHEETS | Eaton Specification Sheet - 171001 |
| WIRING DIAGRAMS | Contact Sequence xEffect FRBm4/FRBm6 3N |

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| RATED OPERATIONAL VOLTAGE (UE) - MAX | 415 V |
| RATED SWITCHING CAPACITY | 4.5 kA |
| BASIC FUNCTION | Combined RCD/MCB devices |
| MOUNTING METHOD | DIN rail |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT | 11.6 W |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 4 kV |
| DEGREE OF PROTECTION | IP20 |
| OPERATING AMBIENT TEMPERATURE HINT | Keep in mind the derating at temperatures higher than 40 °C |
| TRIPPING | Non-delayed |
| OVERVOLTAGE CATEGORY | III |
| POLLUTION DEGREE | 2 |
| IMPULSE WITHSTAND CURRENT | Partly surge-proof, 250 A |
| LEAKAGE CURRENT TYPE | A |
| RELEASE CHARACTERISTIC | C |
| SENSITIVITY TYPE | Pulse-current sensitive |
| FREQUENCY RATING | 50 Hz |
| RATED INSULATION VOLTAGE (UI) | 500 V |
| CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN | 1 mm ² |
| CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX | 25 mm ² |
| CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN | 1 mm ² |
| CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX | 25 mm ² |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009) | 4.5 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN | 4.5 kA |

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| 61009-1) | |
| NUMBER OF POLES | Three-pole + N |
| DISCONNECTION CHARACTERISTIC | Undelayed |
| TYPE | RCBO |
| APPLICATION | Switchgear for industrial and advanced commercial applications |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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