

Specifications

Eaton 286464

Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 6A, 30mA, MCB trip curve C, 1pole+N, RCCB trip type: AC, PFL6

General specifications

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| PRODUCT NAME | Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection |
| CATALOG NUMBER | 286464 |
| MODEL CODE | PFL6-6/1N/C/003 |
| EAN | 4015082864644 |
| PRODUCT LENGTH/DEPTH | 86 mm |
| PRODUCT HEIGHT | 75 mm |
| PRODUCT WIDTH | 37 mm |
| PRODUCT WEIGHT | 0.225 kg |
| COMPLIANCES | CE Marked RoHS conform |
| CERTIFICATIONS | CE |
| GLOBAL CATALOG | 286464 |



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Product specifications

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| AMPERAGE RATING | 6 A |
| VOLTAGE RATING | 230 V |
| SURGE CURRENT CAPACITY | 0.25 kA |
| VOLTAGE TYPE | AC |
| WIDTH IN NUMBER OF MODULAR SPACINGS | 2 |
| FEATURES | Concurrently switching N-neutral |
| 10.10 TEMPERATURE RISE | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 SHORT-CIRCUIT RATING | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 ELECTROMAGNETIC COMPATIBILITY | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 MECHANICAL FUNCTION | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| 10.2.2 CORROSION RESISTANCE | Meets the product standard's requirements. |
| 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES | Meets the product standard's requirements. |
| 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT | Meets the product standard's requirements. |
| 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS | Meets the product standard's requirements. |
| 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION | Meets the product standard's requirements. |
| 10.2.5 LIFTING | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 MECHANICAL | Does not apply, since the |

Resources

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| CATALOGS | eaton-xpole-pfl7-rcbo-catalog-ca019045en-en-us.pdf eaton-xpole-pfl6-rcbo-catalog-ca019046en-en-us.pdf |
| CHARACTERISTIC CURVE | eaton-xpole-pfl6-7-characteristic-curve-002.jpg |
| DECLARATIONS OF CONFORMITY | eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-eu250082en.pdf |
| DRAWINGS | eaton-xeffect-frbm6m-wiring-diagram.jpg eaton-xpole-pkn6-m-dimensions.jpg eaton-xpole-pkn6-m-3d-drawing.jpg |
| INSTALLATION INSTRUCTIONS | eaton-rccb-rcbo-g9-il019140zu.pdf eaton-xpole-combined-mcb-rcd-device-rcbo-packaging-manual-multilingual.pdf |
| MCAD MODEL | eaton-rcd-with-overcurrent-protection-3d-models-fk9051.stp eaton-rcd-with-overcurrent-protection-drawings-fk9051.dwg |
| PEP ECO-PASSPORT | eaton-rcd-with-overcurrent-protection-pep-eato-00114-v0101-en.pdf |

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| IMPACT | entire switchgear needs to be evaluated. |
| 10.2.7 INSCRIPTIONS | Meets the product standard's requirements. |
| 10.3 DEGREE OF PROTECTION OF ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 CLEARANCES AND CREEPAGE DISTANCES | Meets the product standard's requirements. |
| 10.5 PROTECTION AGAINST ELECTRIC SHOCK | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS | Is the panel builder's responsibility. |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS | Is the panel builder's responsibility. |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH | Is the panel builder's responsibility. |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | Is the panel builder's responsibility. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | Is the panel builder's responsibility. |
| OPERATING AMBIENT TEMPERATURE - MAX | 40 °C |
| OPERATING AMBIENT TEMPERATURE - MIN | -25 °C |
| PRODUCT RANGE | PFL6 |
| RATED CURRENT | 6 A |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 6 A |
| RATED SWITCHING CAPACITY (IEC/EN 61009) | 6 kA |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT | 0 W |
| TRIPPING CHARACTERISTIC | C |
| BUILT-IN DEPTH | 69.5 mm |
| CURRENT LIMITING CLASS | 3 |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2) | 0 kA |
| AMBIENT OPERATING | 40 °C |

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| TEMPERATURE - MAX | |
| 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) | 1 |
| NUMBER OF POLES (TOTAL) | 2 |
| RATED OPERATIONAL VOLTAGE (UE) - MAX | 230 V |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) | 0 kA |
| RATED SWITCHING CAPACITY | 6 kA |
| BASIC FUNCTION | Combined RCD/MCB devices |
| MOUNTING METHOD | DIN rail |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT | 1.9 W |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 4 kV |
| DEGREE OF PROTECTION | IP20 |
| TRIPPING | Non-delayed |
| OVERVOLTAGE CATEGORY | III |
| POLLUTION DEGREE | 2 |
| IMPULSE WITHSTAND CURRENT | Partly surge-proof, 250 A |
| LEAKAGE CURRENT TYPE | AC |
| RELEASE CHARACTERISTIC | C |
| SENSITIVITY TYPE | Type AC, AC current sensitive. |
| FREQUENCY RATING | 50 Hz |
| RATED INSULATION VOLTAGE (UI) | 440 V |
| CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN | 1 mm ² |
| CONNECTABLE | 25 mm ² |

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| CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX | |
| 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) | 6 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1) | 6 kA |
| NUMBER OF POLES | Single-pole + N |
| DISCONNECTION CHARACTERISTIC | Undelayed |
| TYPE | RCBO |
| APPLICATION | Switchgear for residential and commercial applications |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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