# Eaton 120661

Eaton Moeller series xPole - mRB4/6 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 6A, 100mA, C-LS-Char, 3N pole, FI-Char: A

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| **PRODUCT NAME** | Eaton Moeller series xPole - mRB6 RCBO - residual-current circuit breaker with overcurrent protection |
| **CATALOG NUMBER** | 120661 |
| **PRODUCT LENGTH/DEPTH** | 80 mm |
| **PRODUCT HEIGHT** | 75.5 mm |
| **PRODUCT WIDTH** | 70 mm |
| **PRODUCT WEIGHT** | 0.446 kg |
| **COMPLIANCES** | CE Marked<br>RoHS conform |
| **CERTIFICATIONS** | CE |

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| **VOLTAGE RATING** | 400 V |
| **SURGE CURRENT CAPACITY** | 0.25 kA |
| **VOLTAGE TYPE** | AC |
| **WIDTH IN NUMBER OF MODULAR SPACINGS** | 4 |
| **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. |
| **DEVICE HEIGHT** | 80 mm |
| **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 |

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| CHARACTERISTIC CURVE | eaton-mcb-xpole-mrb4-6-characteristic-curve.eps |
| □□□□□ | eaton-rccb-rcbo-g9-il019140zu.pdf |
| □□□ | eaton-mcb-xpole-mrb4-6-wiring-diagram.eps |
| □□ | eaton-xeffect-frbm6m-characteristic-curve-002.jpg<br>eaton-xeffect-frbm6m-wiring-diagram-002.jpg<br>eaton-xeffect-frbm6m-dimensions-004.jpg<br>eaton-mcb-xpole-mrb4-6-dimensions.eps |

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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. |
| **MOUNTING STYLE** | Tri-stable slide catch - enables removal from existing busbar combination |
| **OPERATING AMBIENT TEMPERATURE - MAX** | 40 °C |
| **OPERATING AMBIENT TEMPERATURE - MIN** | -25 °C |
| **PRODUCT APPLICATION** | Switchgear for industrial and advanced commercial applications |
| **PRODUCT RANGE** | mRB6 |
| **RATED CURRENT** | 6 A |
| **RATED CURRENT OF PRODUCT RANGE** | 6 - 25 Ampere |
| **RATED FAULT CURRENTS OF PRODUCT RANGE** | 30, 100, 300 MilliAmpere |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 6 A |
| **RATED SWITCHING CAPACITY (IEC/EN 60947-2)** | 6 kA |

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| **RATED SWITCHING CAPACITY (IEC/EN 61009)** | 6 kA |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT** | 0 W |
| **TRIPPING CHARACTERISTIC** | C |
| **BUILT-IN DEPTH** | 70 mm |
| **CURRENT LIMITING CLASS** | 3 |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)** | 0 kA |
| **FRAME** | 45 mm |
| **TERMINAL PROTECTION** | Busbar tag shroud to VBG4 |
| **TERMINALS (TOP AND BOTTOM)** | Twin-purpose |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 40 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **FAULT CURRENT RATING** | 0.1 A |
| **HEAT DISSIPATION CAPACITY** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT** | 0 W |
| **NUMBER OF POLES (PROTECTED)** | 4 |
| **NUMBER OF POLES (TOTAL)** | 4 |
| **RATED OPERATIONAL VOLTAGE (UE) - MAX** | 400 V |
| **RATED SWITCHING CAPACITY** | 6 kA |
| **BACK-UP FUSE** | 100 Ampere gL |
| **BASIC FUNCTION** | Combined RCD/MCB devices |
| **MOUNTING METHOD** | DIN rail |
| **CLIMATIC PROOFING** | IEC 68-2: 25 °C - 55 °C at 90 % - 95 % humidity |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT** | 4.8 W |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 4 kV |
| **DEGREE OF PROTECTION (BUILT IN)** | IP40 |

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| **DEGREE OF PROTECTION** | IP20 |
| **OPERATING AMBIENT TEMPERATURE HINT** | Keep in mind the derating at temperatures higher than 40 °C |
| **SOLID TERMINAL CAPACITIES** | 1 - 25 Square Millimeter |
| **STANDARDS** | IEC/EN 61009 |
| **TRIPPING** | Non-delayed |
| **OVERVOLTAGE CATEGORY** | III |
| **POLLUTION DEGREE** | 2 |
| **MATERIAL THICKNESS** | 2 mm |
| **RATED NON-TRIPPING CURRENT** | 0.5 x IΔn |
| **IMPULSE WITHSTAND CURRENT** | Partly surge-proof, 250 A |
| **LEAKAGE CURRENT TYPE** | A |
| **RELEASE CHARACTERISTIC** | C |
| **SENSITIVITY TYPE** | Type A, pulse-current sensitive |
| **FREQUENCY RATING** | 50 Hz |
| **RATED INSULATION VOLTAGE (UI)** | 500 V |
| **CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN** | 1 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX** | 25 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN** | 1 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX** | 25 mm² |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)** | 6 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)** | 6 kA |
| **VOLTAGE RATING AT AC** | 230 V / 400 V |
| **NUMBER OF POLES** | Three-pole + N |
| **DISCONNECTION CHARACTERISTIC** | Undelayed |

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| **TYPE** | RCBO |
| **APPLICATION** | Switchgear for residential and commercial applications |
| **SELECTIVITY CLASS** | 3 |

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30 Pembroke Road
Dublin 4, □□□
Eaton.com



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