# Specifications

Photo is representative

## Eaton 211811

Eaton Moeller series xEffect - AZ MCB. Miniature circuit breaker (MCB) AZ, 3 pole, Tripping characteristic: C, Rated current In: 125 A

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller series xEffect - AZ MCB |
| **CATALOG NUMBER** | 211811 |
| **EAN** | 4015082118112 |
| **PRODUCT LENGTH/DEPTH** | 90 mm |
| **PRODUCT HEIGHT** | 75 mm |
| **PRODUCT WIDTH** | 81 mm |
| **PRODUCT WEIGHT** | 0.658 kg |
| **COMPLIANCES** | RoHS conform |
| **CERTIFICATIONS** | IEC/EN 60947-2<br>EN45545-2<br>IEC 61373 |
| **MODEL CODE** | AZ-3-C125 |

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## Additional information

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|---|---|
| **CURRENT LIMITING CLASS** | 3 |
| **FEATURES** | Additional equipment possible |
| **SPECIAL FEATURES** | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity |
| **USED WITH** | Miniature circuit breaker AZ |

## Delivery programme

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|---|---|
| **AMPERAGE RATING** | 125 A |
| **APPLICATION** | • Switchgear for industrial and advanced commercial applications<br>• xEffect - Switchgear for industrial and advanced commercial applications |
| **NUMBER OF POLES** | Three-pole |
| **NUMBER OF POLES (PROTECTED)** | 3 |
| **NUMBER OF POLES (TOTAL)** | 3 |
| **RELEASE CHARACTERISTIC** | C |
| **TRIPPING CHARACTERISTIC** | C |
| **TYPE** | • AZ<br>• Miniature circuit breaker |

## Design verification to IEC/EN 61439

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|---|---|
| **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 IMPACT** | Does not apply, since the 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** | Does not apply, since the |

## Design verification to IEC/EN 61439 - technical data

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|---|---|
| **AMBIENT OPERATING TEMPERATURE - MAX** | 55 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT** | 35.67 W<br>35.7 W |
| **HEAT DISSIPATION CAPACITY** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT** | 11.9 W |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 125 A |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT** | 0 W |

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|---|---|
| **AGAINST ELECTRIC SHOCK** | 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. |

## Technical data - electrical

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|---|---|
| **ADMISSIBLE BACK-UP FUSE - MAX** | 200 A gL/gG |
| **DIRECTION OF INCOMING SUPPLY** | As required |
| **FREQUENCY RATING - MAX** | 60 Hz |
| **FREQUENCY RATING - MIN** | 50 Hz |
| **LIFESPAN, ELECTRICAL** | 10000 operations |
| **OPERATIONAL SWITCHING CAPACITY** | 20 kA |
| **OVERVOLTAGE CATEGORY** | III |
| **POLLUTION DEGREE** | 2 |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 4 kV |
| **RATED INSULATION VOLTAGE (UI)** | 440 V |
| **RATED OPERATIONAL VOLTAGE (UE) - MAX** | 400 V |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V** | 15 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V** | 15 kA |
| **RATED SWITCHING CAPACITY (IEC/EN 60947-2)** | 15 kA |
| **SELECTIVITY CLASS** | 3 |
| **VOLTAGE RATING** | 230 V AC / 400 V AC |
| **VOLTAGE RATING AT DC** | 60 V DC (per pole) |
| **VOLTAGE TYPE** | AC |

## Technical data - mechanical

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|---|---|
| **BUILT-IN DEPTH** | 75 mm |
| **CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX** | 50 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN** | 2.5 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX** | 50 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN** | 2.5 mm² |
| **DEGREE OF PROTECTION** | IP40 (when fitted)<br>IP20 |
| **ENCLOSURE WIDTH** | 90 mm |
| **FRAME** | 45 mm |
| **MOUNTING METHOD** | Top-hat rail IEC/EN 60715 |
| **MOUNTING WIDTH** | 27 mm |
| **MOUNTING WIDTH PER POLE** | 27 mm |
| **TERMINAL CAPACITY (CONTROL CABLE)** | 2.5 mm² - 50 mm² |
| **TERMINAL PROTECTION** | Finger and hand touch safe, DGUV VS3, EN 50274 |
| **TERMINALS (TOP AND BOTTOM)** | Lift terminals |
| **WIDTH IN NUMBER OF MODULAR SPACINGS** | 4.5 |

| Resources | |
|---|---|
| APPLICATION NOTES | eaton-quality-standards-for-railway-applications-application-paper-ap003005en-en-us.pdf<br>eaton-maximum-cable-lengths-for-eatons-protective-devices-brochure-br034006en-en-us.pdf |
| BROCHURES | eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf |
| CHARACTERISTIC CURVE | eaton-xeffect-az-mcb-characteristic-curve-004.jpg<br>eaton-mcb-xeffect-az-characteristic-curve.eps<br>eaton-mcb-current-xeffect-az-characteristic-curve-002.eps<br>eaton-mcb-xeffect-az-characteristic-curve-002.eps<br>eaton-xeffect-az-mcb-characteristic-curve-002.jpg<br>eaton-mcb-tripping-characteristic-xeffect-az-characteristic-curve.eps<br>eaton-mcb-current-xeffect-az-characteristic-curve.eps |
| DECLARATIONS OF CONFORMITY | eaton-mcb-declaration-of-conformity-eu250431en.pdf |
| DRAWINGS | eaton-mcb-xeffect-az-dimensions-004.eps<br>eaton-xpole-mmct-mcb-dimensions.jpg<br>eaton-xeffect-az-mcb-3d-drawing.jpg<br>eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps<br>eaton-xeffect-az-mcb-3d-drawing-002.jpg |
| ECAD MODEL | ETN.AZ-3-C125 |
| INSTALLATION | IL019148ZU |

| INSTRUCTIONS | |
|---|---|
| MCAD MODEL | DA-CS-az_3p<br><br>eaton-non-selective-universal-mcb-mcad-3d-models-az-plht-3p.stp<br><br>eaton-non-selective-universal-mcb-mcad-drawings-az-plht-3p.dwg<br><br>eaton-non-selective-mcb-mcad-drawings-az-3p.dwg |
| PEP ECO-PASSPORT | eaton-non-selective-universal-mcb-pep-eato-00259-v0101-en.pdf |
| WIRING DIAGRAMS | eaton-mcb-xeffect-faz-wiring-diagram-003.eps<br><br>eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg |

| | |
|---|---|
| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATE:** | |

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