# Specifications



**Photo is representative**





## Eaton 102250

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. FAZ-NA, 3-pole, tripping characteristic: C, rated current In: 16 A, Switchgear for export to North America (UL-listed)

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB |
| **CATALOG NUMBER** | 102250 |
| **MODEL CODE** | FAZ-C16/3-NA |
| **EAN** | 4015081021260 |
| **PRODUCT LENGTH/DEPTH** | 105 mm |
| **PRODUCT HEIGHT** | 75.5 mm |
| **PRODUCT WIDTH** | 53.1 mm |
| **PRODUCT WEIGHT** | 0.365 kg |
| **COMPLIANCES** | RoHS conform |
| **CERTIFICATIONS** | UL 489<br>North America (UL listed, CSA certified)<br>UL 489, CSA C22.2 No. 5<br>IEC 60947-2<br>CE marking<br>CSA (Class No. 1432-01)<br>UL (File No. E235139)<br>CSA (File No. 204453)<br>CSA-C22.2 No. 5-09<br>Specially designed for North America, suitable as BCPD<br>UL (Category Control Number DIVQ)<br>IEC/EN 60947-2<br>EN45545-2<br>IEC 61373 |

## Additional information

| | |
|---|---|
| **CURRENT LIMITING CLASS** | 3 |
| **FEATURES** | Additional equipment possible |
| **FUNCTIONAL GROUP** | Overcurrent protection |
| **FUNCTIONS** | Overload protection<br>Short Circuit protection |
| **INTERNAL RESISTANCE AT ROOM TEMPERATURE (SINGLE-POLE, 50 HZ)** | 8 mΩ |

## Delivery program

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|---|---|
| **AMPERAGE RATING** | 16 A |
| **APPLICATION** | • Industrial and commercial applications<br>• Utilities and OEM control panels<br>• Renewable energy installations<br>• IT and data centre auxiliary circuits<br>• Railway and transportation systems<br>• Branch circuits and power distribution panels<br>• HVAC/R and motor branch circuits<br>• A2L refrigerant environments, etc. |
| **NOMINAL CURRENT** | 16 A |
| **NUMBER OF POLES** | Three-pole |
| **NUMBER OF POLES (PROTECTED)** | 3 |
| **NUMBER OF POLES (TOTAL)** | 3 |
| **RELEASE CHARACTERISTIC** | C |
| **TRIPPING CHARACTERISTIC** | C |
| **TYPE** | • FAZ-NA<br>• Miniature circuit breaker |

## Design verification as per 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 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. |

## Design verification as per IEC/EN 61439 - technical data

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|---|---|
| **AMBIENT OPERATING TEMPERATURE - MAX** | 60 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 16 A |

| | |
|---|---|
| **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

| | |
|---|---|
| **BREAKING CAPACITY** | 14 kA (UL489) |
| **DIRECTION OF INCOMING SUPPLY** | Bidirectional |
| **FREQUENCY RATING - MAX** | 60 Hz |
| **FREQUENCY RATING - MIN** | 50 Hz |
| **LIFESPAN, ELECTRICAL** | 20000 operations |
| **OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX** | 440 VAC |
| **OVERVOLTAGE CATEGORY** | III |
| **POLLUTION DEGREE** | 2 |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 4 kV |
| **RATED INSULATION VOLTAGE (UI)** | 440 V |
| **RATED OPERATIONAL VOLTAGE (UE) - MAX** | 440 VAC |
| **RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60947-2) - ICS** | 7.5 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V** | 25 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V** | 25 kA |
| **RATED SWITCHING CAPACITY (IEC/EN 60947-2)** | 25 kA |
| **RATED SWITCHING CAPACITY (IEC/EN 60947-2) AT MAX VOLTAGE RATING** | 15 kA |
| **SELECTIVITY CLASS** | 3 |
| **VOLTAGE RATING** | 277 V AC / 480 V AC |
| **VOLTAGE RATING (IEC/EN 60947-2)** | • !<br>• 240/415 V AC |
| **VOLTAGE RATING (UL CSA 13)** | 480 Y/277 V AC |
| **VOLTAGE RATING (UL)** | • !<br>• 480Y/277 V AC |
| **VOLTAGE TYPE** | AC |

## Technical data - mechanical

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|---|---|
| **BUILT-IN DEPTH** | 65.5 mm |
| **CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX** | 25 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN** | 1 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX** | 25 mm² |
| **CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN** | 1 mm² |
| **DEGREE OF PROTECTION** | IP20<br>UL/CSA Type: -<br>IP20 (IEC)<br>IP40 (when fitted) |
| **FRAME** | 45 mm |
| **MOUNTING METHOD** | Top-hat rail IEC/EN 60715 |
| **MOUNTING POSITION** | As required |
| **MOUNTING WIDTH** | 17.7 mm |
| **MOUNTING WIDTH PER POLE** | 17.7 mm |
| **TERMINAL PROTECTION** | Finger and hand touch safe, DGUV VS3, EN 50274 |
| **TERMINALS (TOP AND BOTTOM)** | Screw-type with pressure plate |
| **TIGHTENING TORQUE** | UL: 2.4 Nm (21 lb-in) for AWG 18 - AWG 12<br>UL: 4 Nm (36 lb-in) for AWG 6<br>Max. 2.4 Nm<br>UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 |
| **WIDTH IN NUMBER OF MODULAR SPACINGS** | 3 |

## Resources

| | |
|---|---|
| **BROCHURES** | eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf |
| **CHARACTERISTIC CURVE** | eaton-mcb-xeffect-faz-na,-characteristic-curve-002.eps<br><br>eaton-mcb-xeffect-faz-na,-characteristic-curve.eps |
| **DECLARATIONS OF CONFORMITY** | eaton-mcb-declaration-of-conformity-uk251433en.pdf<br><br>eaton-mcb-declaration-of-conformity-eu250394en.pdf |
| **DRAWINGS** | eaton-mcb-xeffect-faz-na,-3d-drawing-002.eps |
| **ECAD MODEL** | DA-CE-ETN.FAZ-C16_3-NA |
| **INSTALLATION INSTRUCTIONS** | eaton-mcb-faz-na-rt-du-il0191333zu.pdf |
| **MCAD MODEL** | eaton-non-selective-universal-mcb-3d-models-faz-na-3p.stp |
| **WIRING DIAGRAMS** | eaton-mcb-xeffect-faz-na,-wiring-diagram-002.eps |

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

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