# Eaton 183349

Eaton Moeller series IZMX/INX - ACB. Circuit-breaker, 3p, 1250A, 50 kA, Selective operation, IEC, Withdrawable

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| **PRODUCT NAME** | Eaton Moeller series IZMX/INX circuit-breaker |
| **CATALOG NUMBER** | 183349 |
| **PRODUCT LENGTH/DEPTH** | 584 mm |
| **PRODUCT HEIGHT** | 597 mm |
| **PRODUCT WIDTH** | 521 mm |
| **PRODUCT WEIGHT** | 27.74 kg |
| **COMPLIANCES** | IEC<br>IEC/EN 60947<br>RoHS conform |

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| **USED WITH** | Open circuit breaker<br>Air circuit breakers/switch-disconnector |
| **AMPERAGE RATING** | 1250 A |
| **FEATURES** | Complete device with protection unit<br>Motor drive optional |
| **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 |

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| □□□ | TT-IZMX16N3-V12W-1-183349 |
| □□ | eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions.eps<br><br>eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps<br><br>eaton-circuit-breaker-izmx-inx-mccb-dimensions-012.eps |

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| | 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. |
| **FITTED WITH:** | Switched-off indicator |
| **FRAME** | IZMX16 |
| **POLLUTION DEGREE** | 3 |
| **RATED UNINTERRUPTED CURRENT (IU)** | 1250 A |
| **MOUNTING METHOD** | Withdrawable |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT** | 180 W |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 12 kV AC |
| **UTILIZATION CATEGORY** | B |
| **DEVICE CONSTRUCTION** | Built-in device slide-in technique (withdrawable) |
| **DIRECTION OF INCOMING SUPPLY** | As required |
| **ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT** | Rail connection |
| **ACTUATOR TYPE** | Push button |
| **SHORT-CIRCUIT RELEASE NON-DELAYED SETTING** | 1.5 - 10 x Ir |
| **ADJUSTMENT RANGE SHORT-TERM DELAYED** | 12500 A |

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| **SHORT-CIRCUIT RELEASE - MAX** | |
| **ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN** | 750 A |
| **ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX** | 18750 A |
| **ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN** | 2500 A |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 70 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -20 °C |
| **AMBIENT STORAGE TEMPERATURE - MAX** | 70 °C |
| **AMBIENT STORAGE TEMPERATURE - MIN** | -20 °C |
| **NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)** | 2 |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)** | 0 |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)** | 0 |
| **NUMBER OF STANDARD MECHANICAL OPERATIONS PER HOUR - MAX** | 60 |
| **OPERATING SEQUENCE UP TO 690 V, 50/60 HZ (IEC/EN 60947)** | 42 kA |
| **OVERLOAD RELEASE CURRENT SETTING - MAX** | 1250 A |
| **OVERLOAD RELEASE CURRENT SETTING - MIN** | 500 A |
| **POWER OF WITHDRAWABLE SWITCH WITH CASSETTE** | 180 W |
| **RATED INSULATION VOLTAGE (UI)** | 1000 V |
| **LIFESPAN, MECHANICAL** | 12500 switching cycles (ON/OFF)<br>25000 operations (switching capacity, with maintenance) |
| **OVERVOLTAGE CATEGORY** | III |

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| **SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN** | 0 A |
| **WEIGHT OF CASSETTE VERSION (3-POLE)** | 18 kg |
| **WEIGHT OF FIXED WITHDRAWABLE VERSION (3-POLE)** | 28 kg |
| **AMBIENT OPERATING TEMPERATURE DETAILS** | -20 °C - 70 °C |
| **PROTECTION** | Selective operation |
| **VOLTAGE RATING AT AC** | 690 V AC |
| **SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX** | 18750 A |
| **SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX** | 12500 A |
| **NUMBER OF POLES** | Three-pole |
| **DEGREE OF PROTECTION** | IP31<br>IP31 with door seals<br>IP55 with protective cover |
| **CLOSING DELAY VIA SPRING RELEASE** | 30 ms |
| **LIFESPAN, ELECTRICAL** | 20000 operations (switching cycles ON/OFF, with maintenance)<br>10000 operations (switching capacity) |
| **TYPE** | • Air circuit breakers/switch-disconnector<br>• Open circuit breaker |
| **SPECIAL FEATURES** | • Cassette must be separately ordered.<br>• Main terminals must be separately ordered.<br>• suitable for zone selectivity<br>• optionally fittable by user with comprehensive accessories<br>• Terminal capacity hint: These are values used in separate switchgear. The actual values will depend on the |

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| | temperature around the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IP), the mounting height, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compensated for by increasing the cross-sectional area. Temperature rise tests in the specific switchgear can provide specific and detailed information. |
| **POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT** | Back side |
| **RELEASE SYSTEM** | Electronic release |
| **RATED OPERATING VOLTAGE (UE) - MAX** | 690 V |
| **RATED OPERATING VOLTAGE (UE) - MIN** | 690 V |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 1250 A |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY AT 400 V, 50 HZ** | 50 kA |
| **RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ** | 105 kA |
| **RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 690 V, 50/60 HZ** | 88 kA |
| **RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)** | 42 kA |
| **RATED UNINTERRUPTED CURRENT (IU) AT 50°C** | 1250 A |
| **RATED UNINTERRUPTED CURRENT (IU) AT 60°C** | 1250 A |

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| **RATED UNINTERRUPTED CURRENT (IU) AT 70°C** | 1250 A |
| **SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN** | 937.5 A |
| **TERMINAL CAPACITY (COPPER BAR)** | 5 mm x 80 mm (2x) for withdrawable units (black) |
| **POWER LOSS** | 180 W |

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| **PROJECT NAME:** |
| **PROJECT NUMBER:** |
| **PREPARED BY:** |
| **□□:** |

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