

# Specifications



## Eaton 183777

Eaton Moeller series IZMX/INX - ACB. Circuit-breaker, 4p, 3200A, 105 kA, P measurement, IEC, Fixed

### General specifications

|                      |   |
|----------------------|---|
| PRODUCT NAME         | Eaton Moeller series IZMX/INX circuit-breaker |
| CATALOG NUMBER       | 183777  |
| MODEL CODE           | IZMX40H4-P32F-1                               |
| EAN                  | 4015081795130                                 |
| PRODUCT LENGTH/DEPTH | 584 mm  |
| PRODUCT HEIGHT       | 597 mm  |
| PRODUCT WIDTH        | 521 mm  |
| PRODUCT WEIGHT       | 56 kg   |
| COMPLIANCES          | IEC/EN 60947<br>IEC<br>RoHS conform           |
| GLOBAL CATALOG       | 183777  |

## Product specifications

|   |  |
|---|--|
| <b>USED WITH</b>  | Open circuit breaker<br>Air circuit breakers/switch-disconnector   |
| <b>AMPERAGE RATING</b>  | 3200 A   |
| <b>FEATURES</b>   | Complete device with protection unit<br>Motor drive optional   |
| <b>10.10 TEMPERATURE RISE</b>   | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>   | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>  | Meets the product standard's requirements.   |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.   |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.   |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.   |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.   |
| <b>10.2.5 LIFTING</b>   | Does not apply, since the entire switchgear needs to be evaluated.   |
| <b>10.2.6 MECHANICAL</b>  | Does not apply, since the  |

## Resources

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| <b>CATALOGS</b>                   | <a href="#">eaton-acb-izm63-catalog-ca0135003en-en-us.pdf</a>  |
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-circuit-breaker-declaration-of-conformity-eu250301en.pdf</a>   |
| <b>DRAWINGS</b>                   | <a href="#">eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions.eps</a><br><a href="#">eaton-circuit-breaker-izmx-inx-mccb-dimensions-013.eps</a><br><a href="#">eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps</a> |
| <b>ECAD MODEL</b>                 | <a href="#">DA-CE-ETN.IZMX40H4-P32F-1</a>  |
| <b>INSTALLATION VIDEOS</b>        | <a href="#">Air Circuit Breakers Series IZMX</a>   |
| <b>MANUALS AND USER GUIDES</b>    | <a href="#">MN013002_EN</a>  |
| <b>MCAD MODEL</b>                 | <a href="#">DA-CD-izmx40_4pol_f</a><br><a href="#">DA-CS-izmx40_4pol_f</a>   |

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| <b>IMPACT</b>   | entire switchgear needs to be evaluated.                           |
| <b>10.2.7 INSCRIPTIONS</b>                                      | Meets the product standard's requirements.                         |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                         |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                             |
| <b>FITTED WITH:</b>   | Switched-off indicator   |
| <b>FRAME</b>  | IZMX40   |
| <b>POLLUTION DEGREE</b>   | 3  |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                         | 3200 A   |
| <b>MOUNTING METHOD</b>  | Fixed  |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 385 W  |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 12 kV AC   |
| <b>UTILIZATION CATEGORY</b>                                     | B  |
| <b>DEVICE CONSTRUCTION</b>                                      | Built-in device fixed built-in technique                           |
| <b>DIRECTION OF INCOMING SUPPLY</b>                             | As required  |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>               | Rail connection  |

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| <b>ACTUATOR TYPE</b>   | Push button               |
| <b>SHORT-CIRCUIT RELEASE<br/>NON-DELAYED SETTING</b>                               | 1.5 - 10 x I <sub>r</sub> |
| <b>ADJUSTMENT RANGE<br/>SHORT-TERM DELAYED<br/>SHORT-CIRCUIT RELEASE<br/>- MAX</b> | 32000 A                   |
| <b>ADJUSTMENT RANGE<br/>SHORT-TERM DELAYED<br/>SHORT-CIRCUIT RELEASE<br/>- MIN</b> | 1920 A                    |
| <b>ADJUSTMENT RANGE<br/>UNDELAYED SHORT-<br/>CIRCUIT RELEASE - MAX</b>             | 48000 A                   |
| <b>ADJUSTMENT RANGE<br/>UNDELAYED SHORT-<br/>CIRCUIT RELEASE - MIN</b>             | 6400 A                    |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MAX</b>                                     | 70 °C                     |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MIN</b>                                     | -20 °C                    |
| <b>AMBIENT STORAGE<br/>TEMPERATURE - MAX</b>                                       | 70 °C                     |
| <b>AMBIENT STORAGE<br/>TEMPERATURE - MIN</b>                                       | -20 °C                    |
| <b>HEAT DISSIPATION AT<br/>RATED CURRENT WITH<br/>FIXED MOUNTING</b>               | 385 W                     |
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (CHANGE-<br/>OVER CONTACTS)</b>                | 2                         |
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (NORMALLY<br/>CLOSED CONTACTS)</b>             | 0                         |
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (NORMALLY<br/>OPEN CONTACTS)</b>               | 0                         |
| <b>NUMBER OF STANDARD<br/>MECHANICAL<br/>OPERATIONS PER HOUR -<br/>MAX</b>         | 60                        |
| <b>OPERATING SEQUENCE<br/>UP TO 690 V, 50/60 HZ<br/>(IEC/EN 60947)</b>             | 85 kA                     |
| <b>OVERLOAD RELEASE<br/>CURRENT SETTING - MAX</b>                                  | 3200 A                    |
| <b>OVERLOAD RELEASE<br/>CURRENT SETTING - MIN</b>                                  | 1280 A                    |
| <b>RATED INSULATION</b>  | 1000 V                    |

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| <b>VOLTAGE (UI)</b>  |   |
| <b>LIFESPAN, MECHANICAL</b>                                    | 20000 operations<br>(switching capacity, with<br>maintenance)<br>10000 switching cycles<br>(ON/OFF)   |
| <b>OVERVOLTAGE<br/>CATEGORY</b>                                | III   |
| <b>SHORT-CIRCUIT RELEASE<br/>NON-DELAYED SETTING -<br/>MIN</b> | 0 A   |
| <b>WEIGHT OF FIXED<br/>MOUNTING VERSION (4-<br/>POLE)</b>      | 56 kg   |
| <b>AMBIENT OPERATING<br/>TEMPERATURE DETAILS</b>               | -20 °C - 70 °C  |
| <b>PROTECTION</b>  | P measurement   |
| <b>VOLTAGE RATING AT AC</b>                                    | 690 V AC  |
| <b>SHORT-CIRCUIT RELEASE<br/>NON-DELAYED SETTING -<br/>MAX</b> | 48000 A   |
| <b>SHORT-CIRCUIT RELEASE<br/>DELAYED SETTING - MAX</b>         | 32000 A   |
| <b>NUMBER OF POLES</b>   | Four-pole   |
| <b>DEGREE OF PROTECTION</b>                                    | IP31<br>IP31 with door seals<br>IP55 with protective cover  |
| <b>CLOSING DELAY VIA<br/>SPRING RELEASE</b>                    | 35 ms   |
| <b>LIFESPAN, ELECTRICAL</b>                                    | 5000 operations (switching<br>capacity)<br>10000 operations<br>(switching cycles ON/OFF,<br>with maintenance)   |
| <b>TYPE</b>  | <ul style="list-style-type: none"> <li>• Air circuit breakers/switch-disconnector</li> <li>• Open circuit breaker</li> </ul>  |
| <b>SPECIAL FEATURES</b>  | <ul style="list-style-type: none"> <li>• External IZMX-DTP-PTM-1 voltage measuring module required (1 module is suitable for 16 circuit breakers)</li> <li>• suitable for zone selectivity</li> <li>• suitable for</li> </ul> |

- communication
- with integrated system monitor
- with integrated test possibility
- With graphic LCD display
- optionally fittable by user with comprehensive accessories
- Terminal capacity hint: These are values used in separate switchgear. The actual values will depend on the 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.

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| <b>POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT</b> | Back side          |
| <b>RELEASE SYSTEM</b>                                  | Electronic release |
| <b>RATED OPERATING VOLTAGE (UE) - MAX</b>              | 690 V              |
| <b>RATED OPERATING VOLTAGE (UE) - MIN</b>              | 690 V              |
| <b>RATED OPERATIONAL</b>                               | 3200 A             |

|  |  |
|--|--|
| <b>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b>                   |  |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY AT<br/>400 V, 50 HZ</b>     | 105 kA   |
| <b>RATED SHORT-CIRCUIT<br/>MAKING CAPACITY UP TO<br/>440 V, 50/60 HZ</b> | 231 kA   |
| <b>RATED SHORT-CIRCUIT<br/>MAKING CAPACITY UP TO<br/>690 V, 50/60 HZ</b> | 166 kA   |
| <b>RATED SHORT-TIME<br/>WITHSTAND CURRENT (T<br/>= 1 S)</b>              | 85 kA  |
| <b>RATED SHORT-TIME<br/>WITHSTAND CURRENT AT<br/>50/60 HZ (T = 3 S)</b>  | 66 kA  |
| <b>RATED UNINTERRUPTED<br/>CURRENT (IU) AT 50°C</b>                      | 3200 A   |
| <b>RATED UNINTERRUPTED<br/>CURRENT (IU) AT 60°C</b>                      | 3200 A   |
| <b>RATED UNINTERRUPTED<br/>CURRENT (IU) AT 70°C</b>                      | 3200 A   |
| <b>SHORT-CIRCUIT RELEASE<br/>DELAYED SETTING - MIN</b>                   | 2400 A   |
| <b>TERMINAL CAPACITY<br/>(COPPER BAR)</b>                                | 80 mm x 10 mm (3x) for<br>fixed mounting (black) |
| <b>POWER LOSS</b>  | 385 W  |

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|------------------------|
| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
| <b>DATE:</b>           |



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