

# Specifications



Photo is representative

## Eaton 184058

Eaton Moeller series IZMX/INX - ACB. Switch, disconnecter, 3 pole, 1250A, without protection, IEC, Withdrawable, 40B3, 12W, 1

### General specifications

|                             |                              |
|-----------------------------|------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series         |
|                             | IZMX/INX switch-disconnector |
| <b>CATALOG NUMBER</b>       | 184058                       |
| <b>MODEL CODE</b>           | INX40B3-12W-1                |
| <b>EAN</b>                  | 4015081795970                |
| <b>PRODUCT LENGTH/DEPTH</b> | 584 mm                       |
| <b>PRODUCT HEIGHT</b>       | 597 mm                       |
| <b>PRODUCT WIDTH</b>        | 521 mm                       |
| <b>PRODUCT WEIGHT</b>       | 69 kg                        |
| <b>COMPLIANCES</b>          | IEC                          |
|                             | IEC/EN 60947                 |
|                             | RoHS conform                 |

## Additional information

### FUNCTIONS

Voltage release optional  
Interlockable

## Delivery programme

### AMPERAGE RATING

1250 A

### FEATURES

Version as maintenance-  
/service switch  
Version as main switch  
Motor drive optional

### FRAME

INX40

### NUMBER OF POLES

Three-pole

### RELEASE SYSTEM

Without releases

### SPECIAL FEATURES

- Cassette must be separately ordered.
- 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.

### SUITABLE FOR

Distribution board  
installation  
Intermediate mounting  
Ground mounting

### TYPE

- Air circuit

|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
|                  | breakers/switch-disconnector<br>• Open switch-disconnector           |
| <b>USED WITH</b> | Air circuit breakers/switch-disconnector<br>Open switch-disconnector |

## Design verification to IEC/EN 61439

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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 IMPACT</b>                                                         | Does not apply, since the 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</b>                                                                  | Does not apply, since the                                                                                                        |

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

|                                                                      |                |
|----------------------------------------------------------------------|----------------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                           | 70 °C          |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>                             | 70 °C          |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                           | -25 °C         |
| <b>AMBIENT OPERATING TEMPERATURE DETAILS</b>                         | -20 °C - 70 °C |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>                             | -40 °C         |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>                 | 155 W          |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 1250 A         |

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                   | 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.                             |

## Technical data - electrical

|                                                                  |                                                                                                       |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>ACTUATOR TYPE</b>                                             | Push button                                                                                           |
| <b>CLOSING DELAY VIA SPRING RELEASE</b>                          | 35 ms                                                                                                 |
| <b>DIRECTION OF INCOMING SUPPLY</b>                              | As required                                                                                           |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>                | Rail connection                                                                                       |
| <b>LIFESPAN, ELECTRICAL</b>                                      | 20000 operations (switching cycles ON/OFF, with maintenance)<br>10000 operations (switching capacity) |
| <b>NUMBER OF STANDARD MECHANICAL OPERATIONS PER HOUR - MAX</b>   | 60                                                                                                    |
| <b>OVERVOLTAGE CATEGORY</b>                                      | III                                                                                                   |
| <b>POLLUTION DEGREE</b>                                          | 3                                                                                                     |
| <b>POWER OF WITHDRAWABLE SWITCH WITH CASSETTE</b>                | 155 W                                                                                                 |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>              | 144 kA                                                                                                |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                    | 12 kV AC                                                                                              |
| <b>RATED INSULATION VOLTAGE (UI)</b>                             | 1000 V                                                                                                |
| <b>RATED OPERATING VOLTAGE (UE) - MAX</b>                        | 690 V                                                                                                 |
| <b>RATED OPERATING VOLTAGE (UE) - MIN</b>                        | 690 V                                                                                                 |
| <b>RATED OPERATING VOLTAGE (UE) AT AC - MAX</b>                  | 690 V                                                                                                 |
| <b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>                   | 1250 A                                                                                                |
| <b>RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ</b> | 145 kA                                                                                                |
| <b>RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 690 V, 50/60 HZ</b> | 145 kA                                                                                                |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>                  | 66 kA                                                                                                 |
| <b>RATED SHORT-TIME</b>                                          | 66 kA                                                                                                 |

## Technical data - mechanical

|                                                                |                                                                                            |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>ACTUATOR COLOR</b>                                          | Green                                                                                      |
| <b>DEGREE OF PROTECTION</b>                                    | IP31 with door seals<br>IP55 with protective cover<br>NEMA Other                           |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b>                       | IP31                                                                                       |
| <b>DEVICE CONSTRUCTION</b>                                     | Built-in device slide-in technique (withdrawable)                                          |
| <b>HOUSING MATERIAL</b>                                        | Plastic                                                                                    |
| <b>LIFESPAN, MECHANICAL</b>                                    | 12500 switching cycles (ON/OFF)<br>25000 operations (switching capacity, with maintenance) |
| <b>MOUNTING METHOD</b>                                         | Withdrawable                                                                               |
| <b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>     | 2                                                                                          |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0                                                                                          |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 0                                                                                          |
| <b>NUMBER OF SWITCHES</b>                                      | 1                                                                                          |
| <b>POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT</b>         | Back side                                                                                  |
| <b>PROTECTION</b>                                              | None                                                                                       |
| <b>WEIGHT OF CASSETTE VERSION (3-POLE)</b>                     | 29 kg                                                                                      |
| <b>WEIGHT OF FIXED WITHDRAWABLE VERSION (3-POLE)</b>           | 60 kg                                                                                      |

|                                                                 |          |
|-----------------------------------------------------------------|----------|
| <b>WITHSTAND CURRENT (T = 1 S)</b>                              |          |
| <b>RATED SHORT-TIME WITHSTAND CURRENT AT 50/60 HZ (T = 3 S)</b> | 53 kA    |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                         | 1250 A   |
| <b>RATED UNINTERRUPTED CURRENT (IU) AT 50°C</b>                 | 1250 A   |
| <b>RATED UNINTERRUPTED CURRENT (IU) AT 60°C</b>                 | 1250 A   |
| <b>RATED UNINTERRUPTED CURRENT (IU) AT 70°C</b>                 | 1250 A   |
| <b>UTILIZATION CATEGORY</b>                                     | B        |
| <b>VOLTAGE RATING AT AC</b>                                     | 690 V AC |

## Technical data - mechanical - terminals

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| <b>TERMINAL CAPACITY (COPPER BAR)</b> | 60 mm x 10 mm (1x) for withdrawable units (black) |
|---------------------------------------|---------------------------------------------------|

## Resources

|                            |                                                                                    |
|----------------------------|------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-acb-izm63-catalog-ca0135003en-en-us.pdf</a>                      |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-switch-disconnector-declaration-of-conformity-eu250303en.pdf</a> |
| DRAWINGS                   | <a href="#">eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions.eps</a>        |
|                            | <a href="#">eaton-circuit-breaker-izmx-inx-mccb-dimensions-014.eps</a>             |
|                            | <a href="#">eaton-circuit-breaker-izmx-inx-mccb-dimensions-015.eps</a>             |
|                            | <a href="#">eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps</a>    |
| ECAD MODEL                 | <a href="#">DA-CE-ETN.INX40B3-12W-1</a>                                            |
| INSTALLATION VIDEOS        | <a href="#">Air Circuit Breakers Series IZMX</a>                                   |
| MANUALS AND USER GUIDES    | <a href="#">MN013002_EN</a>                                                        |
| MCAD MODEL                 | <a href="#">eaton-air-circuit-breakers-mcad-drawings-izmx40-3pol-w.dwg</a>         |
|                            | <a href="#">DA-CS-izmx40_3pol_w</a>                                                |

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



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