# Specificații








## Eaton 286591

Eaton Moeller series xPole - PL6 MCB. PL6, 3-pole, tripping characteristic: B, rated current In: 25 A, rated switching capacity IEC/EN 60898-1: 6 kA

### General specifications

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|---|---|
| **PRODUCT NAME** | Eaton Moeller series xPole - PL6 MCB |
| **CATALOG NUMBER** | 286591 |
| **EAN** | 4015082865917 |
| **PRODUCT LENGTH/DEPTH** | 85 mm |
| **PRODUCT HEIGHT** | 73 mm |
| **PRODUCT WIDTH** | 53.1 mm |
| **PRODUCT WEIGHT** | 0.36 kg |
| **COMPLIANCES** | RoHS conform |
| **MODEL CODE** | PL6-B25/3 |

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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** | PL6<br>Miniature circuit breaker |

## Delivery program

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| **AMPERAGE RATING** | 25 A |
| **APPLICATION** | • Switchgear for residential and commercial applications<br>• xPole - Switchgear for residential and commercial applications |
| **NUMBER OF POLES** | Three-pole |
| **NUMBER OF POLES (PROTECTED)** | 3 |
| **NUMBER OF POLES (TOTAL)** | 3 |
| **RELEASE CHARACTERISTIC** | B |
| **TRIPPING CHARACTERISTIC** | B |
| **TYPE** | • Miniature circuit breaker<br>• PL6 |

## 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** | Does not apply, since the |

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

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|---|---|
| **AMBIENT OPERATING TEMPERATURE - MAX** | 75 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT** | 9.4 W |
| **HEAT DISSIPATION CAPACITY** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT** | 0 W |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 25 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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|---|---|
| **FREQUENCY RATING - MAX** | 60 Hz |
| **FREQUENCY RATING - MIN** | 50 Hz |
| **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/EN 60898-1) - ICN AT 230 V** | 6 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V** | 6 kA |
| **RATED SWITCHING CAPACITY (IEC/EN 60898-1)** | 6 kA |
| **VOLTAGE TYPE** | AC |

## Technical Data - Mechanical

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| **BUILT-IN DEPTH** | 70.5 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 |
| **WIDTH IN NUMBER OF MODULAR SPACINGS** | 3 |

## Resurse

| | |
|---|---|
| CATALOAGE | eaton-xpole-pl6-mcb-catalog-ca019069en-en-us.pdf<br>eaton-miniature-circuit-breaker-xpole-pl6-catalog-ca20190212-en-us.pdf |
| CHARACTERISTIC CURVE | eaton-xpole-mmc4-6-m-mcb-characteristic-curve.jpg |
| DESENE | eaton-xpole-pl6-mcb-dimensions.jpg<br>eaton-xpole-pl6-mcb-3d-drawing.jpg |
| INSTRUCȚIUNI DE INSTALARE | eaton-rccb-rcbo-g9-il019140zu.pdf |
| SCHEME ELECTRICE | eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg |

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|---|---|
| **DENUMIREA PROIECTULUI:** | |
| **NUMĂRUL PROIECTULUI:** | |
| **PREGĂTIT DE:** | |
| **DATA:** | |

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