# Specifications






## Eaton 286531

Eaton Moeller series xPole - PL6 MCB. PL6, 1-pole, tripping characteristic: C, rated current In: 10 A, rated switching capacity IEC/EN 60898-1: 6 kA

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller series xPole - PL6 MCB |
| **CATALOG NUMBER** | 286531 |
| **MODEL CODE** | PL6-C10/1 |
| **EAN** | 4015082865313 |
| **PRODUCT LENGTH/DEPTH** | 85 mm |
| **PRODUCT HEIGHT** | 73 mm |
| **PRODUCT WIDTH** | 17.7 mm |
| **PRODUCT WEIGHT** | 0.12 kg |
| **COMPLIANCES** | RoHS conform |
| **GLOBAL CATALOG** | 286531 |
| **PRODUCT TYPE** | MCB |

## Product specifications

| | |
|---|---|
| **USED WITH** | Miniature circuit breaker PL6 |
| **AMPERAGE RATING** | 10 A |
| **FEATURES** | Additional equipment possible |
| **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** | Is the panel builder's |

## Resources

| | |
|---|---|
| **CATALOGS** | eaton-xpole-protective-devices-catalog-ca019014en-en-us.pdf<br><br>eaton-miniature-circuit-breaker-xpole-pl6-catalog-ca20190212-en-us.pdf |
| **DECLARATIONS OF CONFORMITY** | eaton-mcb-declaration-of-conformity-eu250400en.pdf |
| **INSTALLATION INSTRUCTIONS** | eaton-mcb-rccb-rcbo-g9-il019140zu.pdf |
| **MCAD MODEL** | eaton-non-selective-universal-mcb-mcad-3d-models-faz-xxx-1p.stp |

| | |
|---|---|
| **ELECTRICAL CIRCUITS AND CONNECTIONS** | 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. |
| **POLLUTION DEGREE** | 2 |
| **DEGREE OF PROTECTION** | IP20 |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT** | 1.5 W |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 4 kV |
| **TRIPPING CHARACTERISTIC** | C |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 75 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **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 |
| **CURRENT LIMITING CLASS** | 3 |
| **FREQUENCY RATING - MAX** | 60 Hz |
| **FREQUENCY RATING - MIN** | 50 Hz |
| **HEAT DISSIPATION CAPACITY** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT** | 0 W |
| **WIDTH IN NUMBER OF MODULAR SPACINGS** | 1 |
| **VOLTAGE TYPE** | AC |

| | |
|---|---|
| **OVERVOLTAGE CATEGORY** | III |
| **NUMBER OF POLES** | Single-pole |
| **RELEASE CHARACTERISTIC** | C |
| **TYPE** | • Miniature circuit breaker<br>• PL6 |
| **SPECIAL FEATURES** | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity |
| **APPLICATION** | • Switchgear for residential and commercial applications<br>• xPole - Switchgear for residential and commercial applications |
| **NUMBER OF POLES (PROTECTED)** | 1 |
| **NUMBER OF POLES (TOTAL)** | 1 |
| **RATED INSULATION VOLTAGE (UI)** | 440 V |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 10 A |
| **RATED OPERATIONAL VOLTAGE (UE) - MAX** | 230 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 |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT** | 0 W |
| **POWER LOSS** | 1.5 W |

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

**Eaton Corporation plc** Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2026 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.