

Specifications



Eaton 286530

Eaton Moeller series xPole - PL6 MCB. PL6, 1-pole, tripping characteristic: C, rated current I_n : 6 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 | 286530 |
| MODEL CODE | PL6-C6/1 |
| EAN | 4015082865306 |
| PRODUCT LENGTH/DEPTH | 85 mm |
| PRODUCT HEIGHT | 73 mm |
| PRODUCT WIDTH | 17.7 mm |
| PRODUCT WEIGHT | 0.12 kg |
| COMPLIANCES | RoHS conform |
| GLOBAL CATALOG | 286530 |



Powering Business Worldwide

Product specifications

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| USED WITH | PL6 Miniature circuit breaker |
| AMPERAGE RATING | 6 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 | Does not apply, since the |

Resources

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|----------------------------|---|
| | eaton-xpole-pl6-mcb-catalog-ca019069en-en-us.pdf |
| CATALOGS | eaton-xpole-protective-devices-catalog-ca019014en-en-us.pdf eaton-miniature-circuit-breaker-xpole-pl6-catalog-ca20190212-en-us.pdf |
| CHARACTERISTIC CURVE | eaton-xpole-mmc4-6-m-mcb-characteristic-curve-002.jpg |
| DECLARATIONS OF CONFORMITY | eaton-mcb-declaration-of-conformity-eu250400en.pdf |
| DRAWINGS | eaton-xpole-pl6-mcb-dimensions.jpg eaton-xpole-pl6-mcb-3d-drawing-002.jpg |
| INSTALLATION INSTRUCTIONS | eaton-rccb-rcbo-g9-il019140zu.pdf |
| MCAD MODEL | eaton-non-selective-universal-mcb-mcad-drawings-faz-pls-1p.dwg pls_1p.dwg pls_1p.stp |
| WIRING DIAGRAMS | eaton-xpole-mmc4-6-m-mcb-wiring-diagram-002.jpg |

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| PROTECTION OF ASSEMBLIES | 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. |
| 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 mm ² |
| CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN | 1 mm ² |
| CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX | 25 mm ² |
| CONNECTABLE | 1 mm ² |

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| CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN | |
| 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 | <ul style="list-style-type: none"> • Miniature circuit breaker • PL6 |
| SPECIAL FEATURES | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity |
| APPLICATION | <ul style="list-style-type: none"> • Switchgear for residential and commercial applications • 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) | 6 A |
| RATED OPERATIONAL VOLTAGE (UE) - MAX | 230 V |
| RATED SHORT-CIRCUIT | 6 kA |

**BREAKING CAPACITY
(IEC/EN 60898-1) - ICN AT
230 V**

**RATED SHORT-CIRCUIT
BREAKING CAPACITY
(IEC/EN 60898-1)- ICN AT
400 V** 6 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY (IEC
60947-2)- ICU AT 230 V** 0 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY (IEC
60947-2)- ICU AT 400 V** 0 kA

**RATED SWITCHING
CAPACITY (IEC/EN 60898-
1)** 6 kA

**STATIC HEAT
DISSIPATION, NON-
CURRENT-DEPENDENT** 0 W

POWER LOSS 1.2 W

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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