



## Eaton 242454

Eaton Moeller series xPole - PLS6/M MCB.  
PLSM, 3-pole, tripping characteristic: B, rated  
current In: 63 A, rated switching capacity  
IEC/EN 60898-1: 10 kA

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|---------------------------------|--------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller series xPole<br>- PLS6/M MCB |
| <b>CATALOG NUMBER</b>           | 242454                                     |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 80 mm                                      |
| <b>PRODUCT HEIGHT</b>           | 75 mm                                      |
| <b>PRODUCT WIDTH</b>            | 52.5 mm                                    |
| <b>PRODUCT WEIGHT</b>           | 0.359 kg                                   |
| <b>COMPLIANCES</b>              | RoHS conform                               |

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| <b>USED WITH</b>                                                                        | PLSM<br>Miniature circuit breaker                                                                                                |
| <b>AMPERAGE RATING</b>                                                                  | 63 A                                                                                                                             |
| <b>FEATURES</b>                                                                         | Additional equipment possible                                                                                                    |
| <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</b>                                                                   | Does not apply, since the                                                                                                        |

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| <b>CHARACTERISTIC CURVE</b> | <a href="#">eaton-xpole-mmc4-6-m-mcb-characteristic-curve.jpg</a>                                                      |
| <b>□□□</b>                  | <a href="#">eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg</a>                                                        |
| <b>□□</b>                   | <a href="#">eaton-xpole-mmc4-6-m-mcb-dimensions.jpg</a><br><a href="#">eaton-xpole-mmc4-6-m-mcb-3d-drawing-006.jpg</a> |

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| <b>PROTECTION OF ASSEMBLIES</b>                                 | 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>POLLUTION DEGREE</b>                                         | 2                                                                  |
| <b>DEGREE OF PROTECTION</b>                                     | IP20                                                               |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 17.2 W                                                             |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 4 kV                                                               |
| <b>TRIPPING CHARACTERISTIC</b>                                  | B                                                                  |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 75 °C                                                              |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                      | -25 °C                                                             |
| <b>BUILT-IN DEPTH</b>                                           | 70.5 mm                                                            |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b>  | 25 mm <sup>2</sup>                                                 |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b>  | 1 mm <sup>2</sup>                                                  |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>   | 25 mm <sup>2</sup>                                                 |
| <b>CONNECTABLE</b>                                              | 1 mm <sup>2</sup>                                                  |

|                                                                      |                                                                                                                                                                                      |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>                    |                                                                                                                                                                                      |
| <b>CURRENT LIMITING CLASS</b>                                        | 3                                                                                                                                                                                    |
| <b>FREQUENCY RATING - MAX</b>                                        | 60 Hz                                                                                                                                                                                |
| <b>FREQUENCY RATING - MIN</b>                                        | 50 Hz                                                                                                                                                                                |
| <b>HEAT DISSIPATION CAPACITY</b>                                     | 0 W                                                                                                                                                                                  |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>                  | 0 W                                                                                                                                                                                  |
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>                           | 3                                                                                                                                                                                    |
| <b>VOLTAGE TYPE</b>                                                  | AC                                                                                                                                                                                   |
| <b>OVERVOLTAGE CATEGORY</b>                                          | III                                                                                                                                                                                  |
| <b>NUMBER OF POLES</b>                                               | Three-pole                                                                                                                                                                           |
| <b>RELEASE CHARACTERISTIC</b>                                        | B                                                                                                                                                                                    |
| <b>TYPE</b>                                                          | <ul style="list-style-type: none"> <li>• Miniature circuit breaker</li> <li>• PLSM</li> </ul>                                                                                        |
| <b>SPECIAL FEATURES</b>                                              | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity                                                                            |
| <b>APPLICATION</b>                                                   | <ul style="list-style-type: none"> <li>• Switchgear for residential and commercial applications</li> <li>• xPole - Switchgear for residential and commercial applications</li> </ul> |
| <b>NUMBER OF POLES (PROTECTED)</b>                                   | 3                                                                                                                                                                                    |
| <b>NUMBER OF POLES (TOTAL)</b>                                       | 3                                                                                                                                                                                    |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                 | 440 V                                                                                                                                                                                |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 63 A                                                                                                                                                                                 |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>                          | 400 V                                                                                                                                                                                |
| <b>RATED SHORT-CIRCUIT</b>                                           | 10 kA                                                                                                                                                                                |

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|-------------------------------------------------------------------------------|--------|
| BREAKING CAPACITY<br>(IEC/EN 60898-1) - ICN AT<br>230 V                       |        |
| RATED SHORT-CIRCUIT<br>BREAKING CAPACITY<br>(IEC/EN 60898-1)- ICN AT<br>400 V | 10 kA  |
| RATED SHORT-CIRCUIT<br>BREAKING CAPACITY (IEC<br>60947-2)- ICU AT 230 V       | 0 kA   |
| RATED SHORT-CIRCUIT<br>BREAKING CAPACITY (IEC<br>60947-2)- ICU AT 400 V       | 0 kA   |
| RATED SWITCHING<br>CAPACITY (IEC/EN 60898-<br>1)                              | 10 kA  |
| STATIC HEAT<br>DISSIPATION, NON-<br>CURRENT-DEPENDENT                         | 0 W    |
| POWER LOSS                                                                    | 18.1 W |

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| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
|                 |



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