

# Specifications

## Eaton 113946

Eaton Moeller series xPole - PKP62/M2 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 32A, 100mA, MCB trip curve B, 2 p, RCCB trip char.: A

### General specifications

|                             |                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series xPole - PKP62/M2 RCBO - residual-current circuit breaker with overcurrent protection |
| <b>CATALOG NUMBER</b>       | 113946                                                                                                    |
| <b>MODEL CODE</b>           | PKP62-32/2/B/01-A                                                                                         |
| <b>EAN</b>                  | 4015081134564                                                                                             |
| <b>PRODUCT LENGTH/DEPTH</b> | 86 mm                                                                                                     |
| <b>PRODUCT HEIGHT</b>       | 75 mm                                                                                                     |
| <b>PRODUCT WIDTH</b>        | 37 mm                                                                                                     |
| <b>PRODUCT WEIGHT</b>       | 0.25 kg                                                                                                   |
| <b>COMPLIANCES</b>          | CE Marked<br>RoHS conform                                                                                 |
| <b>CERTIFICATIONS</b>       | CE                                                                                                        |



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## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>VOLTAGE RATING</b>                                                                   | 230 V                                                                                                                            |
| <b>SURGE CURRENT CAPACITY</b>                                                           | 0.25 kA                                                                                                                          |
| <b>VOLTAGE TYPE</b>                                                                     | AC                                                                                                                               |
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>                                              | 2                                                                                                                                |
| <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.                                                                                       |

## Resources

|                            |                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-xpole-protective-devices-catalog-ca019014en-en-us.pdf</a>                                                                                        |
| CHARACTERISTIC CURVE       | <a href="#">eaton-xeffect-frbm6m-characteristic-curve-003.jpg</a><br><a href="#">eaton-xpole-afdd-characteristic-curve-002.jpg</a>                                 |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-eu250088en.pdf</a>                                   |
| DRAWINGS                   | <a href="#">eaton-xeffect-frbm6m-dimensions-002.jpg</a><br><a href="#">eaton-xeffect-frbm6m-wiring-diagram-003.jpg</a><br><a href="#">eaton-pkp-3d-drawing.jpg</a> |
| ECAD MODEL                 | <a href="#">ETN.PKP62-32_2_B_01-A</a>                                                                                                                              |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-mcb-rccb-rcbo-g9-il019140zu.pdf</a>                                                                                                              |
| MCAD MODEL                 | <a href="#">eaton-rcd-with-overcurrent-protection-mcad-3d-models-frb-2p-rcbo.stp</a>                                                                               |
| PEP ECO-PASSPORT           | <a href="#">eaton-rcd-with-overcurrent-protection-pep-eato-00171-v0101-en.pdf</a>                                                                                  |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <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 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>OPERATING AMBIENT TEMPERATURE - MAX</b>                           | 40 °C                                                              |
| <b>OPERATING AMBIENT TEMPERATURE - MIN</b>                           | -25 °C                                                             |
| <b>PRODUCT APPLICATION</b>                                           | Switchgear for industrial and advanced commercial applications     |
| <b>PRODUCT RANGE</b>                                                 | PKP62                                                              |
| <b>RATED CURRENT</b>                                                 | 32 A                                                               |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 32 A                                                               |
| <b>RATED SWITCHING CAPACITY (IEC/EN 61009)</b>                       | 6 kA                                                               |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>                | 0 W                                                                |
| <b>TRIPPING CHARACTERISTIC</b>                                       | B                                                                  |
| <b>BUILT-IN DEPTH</b>                                                | 70 mm                                                              |
| <b>CURRENT LIMITING CLASS</b>                                        | 3                                                                  |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)</b>            | 0 kA                                                               |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                           | 40 °C                                                              |

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                    | -25 °C                          |
| <b>FAULT CURRENT RATING</b>                                   | 0.1 A                           |
| <b>HEAT DISSIPATION CAPACITY</b>                              | 0 W                             |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>           | 0 W                             |
| <b>NUMBER OF POLES (PROTECTED)</b>                            | 2                               |
| <b>NUMBER OF POLES (TOTAL)</b>                                | 2                               |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>                   | 230 V                           |
| <b>RATED SWITCHING CAPACITY</b>                               | 6 kA                            |
| <b>BASIC FUNCTION</b>                                         | Combined RCD/MCB devices        |
| <b>MOUNTING METHOD</b>                                        | DIN rail                        |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>          | 5.5 W                           |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                 | 4 kV                            |
| <b>DEGREE OF PROTECTION</b>                                   | IP20                            |
| <b>TRIPPING</b>                                               | Non-delayed                     |
| <b>OVERVOLTAGE CATEGORY</b>                                   | III                             |
| <b>POLLUTION DEGREE</b>                                       | 2                               |
| <b>IMPULSE WITHSTAND CURRENT</b>                              | Partly surge-proof, 250 A       |
| <b>LEAKAGE CURRENT TYPE</b>                                   | A                               |
| <b>RELEASE CHARACTERISTIC</b>                                 | B                               |
| <b>SENSITIVITY TYPE</b>                                       | Type A, pulse-current sensitive |
| <b>FREQUENCY RATING</b>                                       | 50 Hz                           |
| <b>RATED INSULATION VOLTAGE (UI)</b>                          | 250 V                           |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b> | 1 mm <sup>2</sup>               |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b> | 25 mm <sup>2</sup>              |
| <b>CONNECTABLE CONDUCTOR CROSS</b>                            | 1 mm <sup>2</sup>               |

|                                                           |                                                        |
|-----------------------------------------------------------|--------------------------------------------------------|
| <b>SECTION (MULTI-WIRED)</b>                              |                                                        |
| <b>- MIN</b>                                              |                                                        |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED)</b>  | 25 mm <sup>2</sup>                                     |
| <b>- MAX</b>                                              |                                                        |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)</b>   | 6 kA                                                   |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)</b> | 6 kA                                                   |
| <b>NUMBER OF POLES</b>                                    | Two-pole                                               |
| <b>DISCONNECTION CHARACTERISTIC</b>                       | Undelayed                                              |
| <b>TYPE</b>                                               | RCBO                                                   |
| <b>APPLICATION</b>                                        | Switchgear for residential and commercial applications |

|                        |
|------------------------|
| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
| <b>DATE:</b>           |



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