

# Specifications



Photo is representative



## Eaton 236707

Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 25A, 30mA, MCB trip curve C, 1pole+N, RCCB trip char.: A

### General specifications

|                             |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection |
| <b>CATALOG NUMBER</b>       | 236707                                                                                                  |
| <b>MODEL CODE</b>           | PKN6-25/1N/C/003-A-MW                                                                                   |
| <b>EAN</b>                  | 4015082367077                                                                                           |
| <b>PRODUCT LENGTH/DEPTH</b> | 80 mm                                                                                                   |
| <b>PRODUCT HEIGHT</b>       | 73 mm                                                                                                   |
| <b>PRODUCT WIDTH</b>        | 35 mm                                                                                                   |
| <b>PRODUCT WEIGHT</b>       | 0.203 kg                                                                                                |
| <b>COMPLIANCES</b>          | CE Marked<br>RoHS conform                                                                               |
| <b>CERTIFICATIONS</b>       | CE                                                                                                      |
| <b>GLOBAL CATALOG</b>       | 236707                                                                                                  |
| <b>PRODUCT TYPE</b>         | RCBO - Residual-current circuit breaker with overcurrent protection                                     |



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## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>AMPERAGE RATING</b>                                                                  | 25 A                                                                                                                             |
| <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>FEATURES</b>                                                                         | Concurrently switching N-neutral                                                                                                 |
| <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</b>                                                                | Does not apply, since the                                                                                                        |

## Resources

|                               |                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGS                      | <a href="#">eaton-xpole-pknm-rcbo-catalog-ca019041en-en-us.pdf</a><br><a href="#">eaton-xpole-pkn6-rcbo-catalog-ca019043en-en-us.pdf</a>                          |
| CHARACTERISTIC CURVE          | <a href="#">eaton-xpole-pkn6-m-characteristic-curve-003.jpg</a>                                                                                                   |
| DECLARATIONS OF CONFORMITY    | <a href="#">eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-eu250083en.pdf</a>                                  |
| DRAWINGS                      | <a href="#">eaton-xeffect-frbm6m-wiring-diagram.jpg</a><br><a href="#">eaton-xpole-pkn6-m-dimensions.jpg</a><br><a href="#">eaton-xpole-pkn6-m-3d-drawing.jpg</a> |
| ECAD MODEL                    | <a href="#">ETN.PKN6-25_1N_C_003-A-MW</a>                                                                                                                         |
| INSTALLATION INSTRUCTIONS     | <a href="#">eaton-mcb-rccb-rcbo-g9-il019140zu.pdf</a>                                                                                                             |
| MCAD MODEL                    | <a href="#">eaton-rcd-with-overcurrent-protection-3d-models-fk9051.stp</a><br><a href="#">eaton-rcbo-mcad-drawings-fk9051.dwg</a>                                 |
| PEP ECO-PASSPORT              | <a href="#">eaton-rcd-with-overcurrent-protection-pep-eato-00114-v0101-en.pdf</a>                                                                                 |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - 236707</a>                                                                                                                |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>IMPACT</b>                                                        | entire switchgear needs to be evaluated.                           |
| <b>10.2.7 INSCRIPTIONS</b>                                           | Meets the product standard's requirements.                         |
| <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 RANGE</b>                                                 | PKN6                                                               |
| <b>RATED CURRENT</b>                                                 | 25 A                                                               |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 25 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>                                       | C                                                                  |
| <b>BUILT-IN DEPTH</b>                                                | 60 mm                                                              |
| <b>CURRENT LIMITING CLASS</b>                                        | 3                                                                  |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)</b>            | 0 kA                                                               |
| <b>AMBIENT OPERATING</b>                                             | 40 °C                                                              |

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| <b>TEMPERATURE - MAX</b>                                      |                                 |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                    | -25 °C                          |
| <b>FAULT CURRENT RATING</b>                                   | 0.03 A                          |
| <b>HEAT DISSIPATION CAPACITY</b>                              | 0 W                             |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>           | 0 W                             |
| <b>NUMBER OF POLES (PROTECTED)</b>                            | 1                               |
| <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>          | 4.8 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>                                 | C                               |
| <b>SENSITIVITY TYPE</b>                                       | Type A, pulse-current sensitive |
| <b>FREQUENCY RATING</b>                                       | 50 Hz                           |
| <b>RATED INSULATION VOLTAGE (UI)</b>                          | 440 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>              |

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

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



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