

# Specifications



## Eaton 196666

Eaton Moeller series RCBO - Residual-current circuit breaker with overcurrent protection. PKPM3, 3 pole, C, In: 25 A, 10 kA, I<sub>ΔN</sub>: 0.03 A

### General specifications

|                                 |                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller series RCBO<br>- Residual-current circuit<br>breaker with overcurrent<br>protection |
|                                 |                                                                                                   |
| <b>CATALOG NUMBER</b>           | 196666                                                                                            |
| <b>MODEL CODE</b>               | PKPM3-25/3/C/003-Li/A                                                                             |
| <b>EAN</b>                      | 9010238800366                                                                                     |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 86 mm                                                                                             |
| <b>PRODUCT HEIGHT</b>           | 75 mm                                                                                             |
| <b>PRODUCT WIDTH</b>            | 73 mm                                                                                             |
| <b>PRODUCT WEIGHT</b>           | 0.39 kg                                                                                           |
| <b>COMPLIANCES</b>              | CE Marked<br>RoHS conform                                                                         |
|                                 |                                                                                                   |
| <b>CERTIFICATIONS</b>           | CE                                                                                                |

## 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>                                              | 4                                                                                                                                |
| <b>FEATURES</b>                                                                         | Anti-nuisance tripping version                                                                                                   |
| <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>DEVICE HEIGHT</b>                                                                    | 80 mm                                                                                                                            |
| <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.                                                               |

## Resources

|                            |                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-eu250085en.pdf</a>                  |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-mcb-rccb-rcbo-g9-il019140zu.pdf</a>                                                                                             |
| MCAD MODEL                 | <a href="#">eaton-rcd-with-overcurrent-protection-3d-models-rcbo-3pole-4mu.stp</a><br><a href="#">eaton-rcbo-mcad-drawings-rcbo-3pole-4mu.dwg</a> |
| PEP ECO-PASSPORT           | <a href="#">eaton-rcd-with-overcurrent-protection-pep-eato-00172-v0101-en.pdf</a>                                                                 |

|                                                                 |                                                                           |
|-----------------------------------------------------------------|---------------------------------------------------------------------------|
| <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 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>MOUNTING STYLE</b>                                           | Tri-stable slide catch - enables removal from existing busbar combination |
| <b>OPERATING AMBIENT TEMPERATURE - MAX</b>                      | 40 °C                                                                     |
| <b>OPERATING AMBIENT TEMPERATURE - MIN</b>                      | -25 °C                                                                    |
| <b>PRODUCT APPLICATION</b>                                      | Switchgear for residential and commercial applications                    |
| <b>PRODUCT RANGE</b>                                            | PKPM3                                                                     |
| <b>RATED CURRENT</b>                                            | 25 A                                                                      |
| <b>RATED FAULT CURRENTS OF PRODUCT RANGE</b>                    | 10, 30, 100 MilliAmpere                                                   |
| <b>RATED SWITCHING CAPACITY (IEC/EN 61009)</b>                  | 10 kA                                                                     |
| <b>TRIPPING CHARACTERISTIC</b>                                  | C                                                                         |
| <b>BUILT-IN DEPTH</b>                                           | 69.5 mm                                                                   |
| <b>CURRENT LIMITING CLASS</b>                                   | 3                                                                         |

|                                                                   |                                                   |
|-------------------------------------------------------------------|---------------------------------------------------|
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY (EN<br/>60947-2)</b> | 0 kA                                              |
| <b>FRAME</b>                                                      | 45 mm                                             |
| <b>TERMINAL PROTECTION</b>                                        | Finger and hand touch<br>safe, DGUV VS3, EN 50274 |
| <b>TERMINALS (TOP AND<br/>BOTTOM)</b>                             | Twin-purpose                                      |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MAX</b>                    | 40 °C                                             |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MIN</b>                    | -25 °C                                            |
| <b>FAULT CURRENT RATING</b>                                       | 0.03 A                                            |
| <b>NUMBER OF POLES<br/>(PROTECTED)</b>                            | 3                                                 |
| <b>NUMBER OF POLES<br/>(TOTAL)</b>                                | 3                                                 |
| <b>RATED OPERATIONAL<br/>VOLTAGE (UE) - MAX</b>                   | 400 V                                             |
| <b>RATED SWITCHING<br/>CAPACITY</b>                               | 10 kA                                             |
| <b>BASIC FUNCTION</b>                                             | Combined RCD/MCB<br>devices                       |
| <b>MOUNTING METHOD</b>                                            | DIN rail                                          |
| <b>CLIMATIC PROOFING</b>                                          | IEC/EN 61009                                      |
| <b>EQUIPMENT HEAT<br/>DISSIPATION, CURRENT-<br/>DEPENDENT</b>     | 9.4 W                                             |
| <b>RATED IMPULSE<br/>WITHSTAND VOLTAGE<br/>(UIMP)</b>             | 4 kV                                              |
| <b>DEGREE OF PROTECTION<br/>(BUILT IN)</b>                        | IP20, IP40 when fitted                            |
| <b>DEGREE OF PROTECTION</b>                                       | IP20, IP40 when fitted<br>IP20                    |
| <b>TRIPPING</b>                                                   | Non-delayed                                       |
| <b>OVERVOLTAGE<br/>CATEGORY</b>                                   | III                                               |
| <b>BUILT-IN WIDTH</b>                                             | 70 mm                                             |
| <b>POLLUTION DEGREE</b>                                           | 2                                                 |
| <b>MATERIAL THICKNESS</b>                                         | 2 mm                                              |
| <b>RATED NON-TRIPPING<br/>CURRENT</b>                             | 0.5 A                                             |
| <b>LEAKAGE CURRENT TYPE</b>                                       | A                                                 |
| <b>RELEASE<br/>CHARACTERISTIC</b>                                 | C                                                 |
| <b>SENSITIVITY TYPE</b>                                           | Type A, pulse-current<br>sensitive                |

|                                                                |                                                                |
|----------------------------------------------------------------|----------------------------------------------------------------|
| <b>FREQUENCY RATING</b>                                        | 50 Hz                                                          |
| <b>RATED INSULATION VOLTAGE (UI)</b>                           | 500 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 SECTION (MULTI-WIRED) - MIN</b> | 1 mm <sup>2</sup>                                              |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b> | 25 mm <sup>2</sup>                                             |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)</b>        | 10 kA                                                          |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)</b>      | 10 kA                                                          |
| <b>VOLTAGE RATING AT AC</b>                                    | 230 V                                                          |
| <b>NUMBER OF POLES</b>                                         | Three-pole                                                     |
| <b>DISCONNECTION CHARACTERISTIC</b>                            | Short-time delayed                                             |
| <b>LIFESPAN, ELECTRICAL</b>                                    | 2000 operations                                                |
| <b>LIFESPAN, MECHANICAL</b>                                    | 10000 operations                                               |
| <b>TYPE</b>                                                    | RCBO                                                           |
| <b>APPLICATION</b>                                             | xPole - Switchgear for residential and commercial applications |
| <b>SELECTIVITY CLASS</b>                                       | 3                                                              |

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



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