



## Eaton 293299

RCD/MCB, 20A, 30mA, miniature circuit-breaker trip curve C, 1pole+N, residual current circuit-breaker trip characteristic: AC. PFL4-20/1N/C/003

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| <b>PRODUCT NAME</b>             | Eaton Moeller series xPole<br>- PFL4 RCBO - residual-<br>current circuit breaker<br>with overcurrent<br>protection |
| <b>CATALOG NUMBER</b>           | 293299                                                                                                             |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 86 mm                                                                                                              |
| <b>PRODUCT HEIGHT</b>           | 75 mm                                                                                                              |
| <b>PRODUCT WIDTH</b>            | 37 mm                                                                                                              |
| <b>PRODUCT WEIGHT</b>           | 0.225 kg                                                                                                           |
| <b>COMPLIANCES</b>              | CE Marked                                                                                                          |
| <b>CERTIFICATIONS</b>           | CE                                                                                                                 |

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| <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 IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |

□□□□ [eaton-xpole-pfl4-rcbo-catalog-ca019047en-en-us.pdf](https://www.eaton.com/content/dam/eaton/products/switchgear/pole-mounted-switchgear/eaton-xpole-pfl4-rcbo-catalog-ca019047en-en-us.pdf)

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| <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>PRODUCT RANGE</b>                                                 | PFL4                                                               |
| <b>RATED CURRENT</b>                                                 | 20 A                                                               |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 20 A                                                               |
| <b>RATED SWITCHING CAPACITY (IEC/EN 61009)</b>                       | 4.5 kA                                                             |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>                | 0 W                                                                |
| <b>TRIPPING CHARACTERISTIC</b>                                       | C                                                                  |
| <b>BUILT-IN DEPTH</b>                                                | 69.5 mm                                                            |
| <b>CURRENT LIMITING CLASS</b>                                        | 3                                                                  |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)</b>            | 0 kA                                                               |
| <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</b>                                               | 1                                                                  |

|                                               |                                                        |
|-----------------------------------------------|--------------------------------------------------------|
| (PROTECTED)                                   |                                                        |
| NUMBER OF POLES (TOTAL)                       | 2                                                      |
| RATED SWITCHING CAPACITY                      | 4.5 kA                                                 |
| BASIC FUNCTION                                | Combined RCD/MCB devices                               |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT | 5.4 W                                                  |
| DEGREE OF PROTECTION                          | IP20                                                   |
| TRIPPING                                      | Non-delayed                                            |
| OVERVOLTAGE CATEGORY                          | III                                                    |
| POLLUTION DEGREE                              | 2                                                      |
| IMPULSE WITHSTAND CURRENT                     | Partly surge-proof, 250 A                              |
| LEAKAGE CURRENT TYPE                          | AC                                                     |
| RELEASE CHARACTERISTIC                        | C                                                      |
| SENSITIVITY TYPE                              | Type AC, AC current sensitive.                         |
| FREQUENCY RATING                              | 50 Hz                                                  |
| NUMBER OF POLES                               | Single-pole + N                                        |
| TYPE                                          | RCBO                                                   |
| APPLICATION                                   | Switchgear for residential and commercial applications |

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