



## Eaton 274047

Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB. Residual current circuit breaker (RCCB), 25A, 4pole, 100mA, type A

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|                             |                                                         |
|-----------------------------|---------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB |
| <b>CATALOG NUMBER</b>       | 274047                                                  |
| <b>PRODUCT LENGTH/DEPTH</b> | 76 mm                                                   |
| <b>PRODUCT HEIGHT</b>       | 80 mm                                                   |
| <b>PRODUCT WIDTH</b>        | 70 mm                                                   |
| <b>PRODUCT WEIGHT</b>       | 0.32 kg                                                 |
| <b>COMPLIANCES</b>          | RoHS conform                                            |
| <b>CERTIFICATIONS</b>       | IEC/EN 61008                                            |

**USED WITH**

KLV-TC-4 276241 (Compact enclosure)  
 Z-FW/LP 248296 (Remote control and automatic switching device)  
 Z-RC/AK-4MU 101062 (sealing cover set)

**AMPERAGE RATING**

25 A

**VOLTAGE RATING**

230 V AC / 400 V AC

**FEATURES**

Additional equipment possible  
 Residual current circuit breaker

**ACCESSORIES REQUIRED**

Z-HK 248432

**10.10 TEMPERATURE RISE**

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

**10.11 SHORT-CIRCUIT RATING**

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

**10.12 ELECTROMAGNETIC COMPATIBILITY**

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

**10.13 MECHANICAL FUNCTION**

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

**10.2.2 CORROSION RESISTANCE**

Meets the product standard's requirements.

**10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES**

Meets the product standard's requirements.

**10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT**

Meets the product standard's requirements.

**10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS**

Meets the product standard's requirements.

**10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION**

Meets the product standard's requirements.

[eaton-xpole-pfim-x-rccb-catalog-ca019029en-en-us.pdf](#)

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|-----------------------------------------------------------------|-------------------------------------------------------------------------------|
| <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 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>FITTED WITH:</b>                                             | Interlocking device                                                           |
| <b>FRAME</b>                                                    | 45 mm                                                                         |
| <b>FREQUENCY RATING</b>                                         | 50 Hz                                                                         |
| <b>POLLUTION DEGREE</b>                                         | 2                                                                             |
| <b>MOUNTING METHOD</b>                                          | DIN rail<br>Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 |
| <b>CLIMATIC PROOFING</b>                                        | 25-55 °C / 90-95% relative humidity according to IEC 60068-2                  |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 2.8 W                                                                         |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 4 kV                                                                          |
| <b>RATED SHORT-TIME WITHSTAND CURRENT</b>                       | 10 kA                                                                         |

|                                                                |                                                |
|----------------------------------------------------------------|------------------------------------------------|
| <b>(ICW)</b>                                                   |                                                |
| <b>ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX</b>                  | 16 A gG/gL                                     |
| <b>BUILT-IN WIDTH (NUMBER OF UNITS)</b>                        | 70 mm (4 SU)                                   |
| <b>BUSBAR MATERIAL THICKNESS</b>                               | 0.8 mm - 2 mm                                  |
| <b>SHORT-CIRCUIT RATING</b>                                    | 63 A (max. admissible back-up fuse)            |
| <b>TERMINAL PROTECTION</b>                                     | Finger and hand touch safe, DGUV VS3, EN 50274 |
| <b>TERMINALS (TOP AND BOTTOM)</b>                              | Open mouthed/lift terminals                    |
| <b>TEST CIRCUIT RANGE</b>                                      | 196 V AC - 456 V AC                            |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                     | 55 °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> | 16 mm <sup>2</sup>                             |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b> | 1.5 mm <sup>2</sup>                            |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>  | 35 mm <sup>2</sup>                             |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>  | 1.5 mm <sup>2</sup>                            |
| <b>FAULT CURRENT RATING</b>                                    | 100 mA                                         |
| <b>HEAT DISSIPATION CAPACITY</b>                               | 0 W                                            |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>            | 0 W                                            |
| <b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX</b>       | 60 °C                                          |
| <b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN</b>       | -35 °C                                         |
| <b>LIFESPAN, MECHANICAL</b>                                    | 20000 operations                               |
| <b>DEGREE OF PROTECTION</b>                                    | IP20<br>IP20, IP40 with suitable enclosure     |

|                                  |                          |
|----------------------------------|--------------------------|
| <b>IMPULSE WITHSTAND CURRENT</b> | Partly surge-proof 250 A |
| <b>NUMBER OF POLES</b>           | Four-pole                |
| <b>LEAKAGE CURRENT TYPE</b>      | A                        |
| <b>LIFESPAN, ELECTRICAL</b>      | 4000 operations          |

|             |                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>TYPE</b> | <ul style="list-style-type: none"> <li>• PFIM-MB</li> <li>• Residual current circuit breakers</li> <li>• Type A</li> </ul> |
|-------------|----------------------------------------------------------------------------------------------------------------------------|

|                         |                                                                                                                                                                                                                                                                   |
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| <b>SPECIAL FEATURES</b> | <ul style="list-style-type: none"> <li>• Maximum operating temperature is 55 °C: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C</li> <li>• Tripping signal contact for subsequent installation Z-NHK 248434</li> </ul> |
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| <b>APPLICATION</b> | <ul style="list-style-type: none"> <li>• Residual current circuit breaker for industrial and advanced commercial applications</li> <li>• xEffect - Switchgear for industrial and advanced commercial applications</li> </ul> |
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|----------------------------------------------------------------------|-------------------------|
| <b>SENSITIVITY TYPE</b>                                              | Pulse-current sensitive |
| <b>RATED FAULT CURRENT - MAX</b>                                     | 0.1 A                   |
| <b>RATED FAULT CURRENT - MIN</b>                                     | 0.1 A                   |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                 | 440 V                   |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 25 A                    |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>                          | 400 V                   |
| <b>RATED RESIDUAL MAKING AND BREAKING CAPACITY</b>                   | 500 A                   |
| <b>STATIC HEAT</b>                                                   | 0 W                     |

|                                     |                                          |
|-------------------------------------|------------------------------------------|
| DISSIPATION, NON-CURRENT-DEPENDENT  |                                          |
| SURGE CURRENT CAPACITY              | 0.25 kA                                  |
| WIDTH IN NUMBER OF MODULAR SPACINGS | 4                                        |
| VOLTAGE TYPE                        | AC                                       |
| TERMINAL CAPACITY (SOLID WIRE)      | 1.5 mm <sup>2</sup> - 35 mm <sup>2</sup> |
| TRIPPING TIME                       | Non-delayed                              |
| RATED SHORT-CIRCUIT STRENGTH        | 10 kA                                    |
| TERMINAL CAPACITY (STRANDED CABLE)  | 16 mm <sup>2</sup> (2x)                  |
| RAL-NUMBER                          | 7035                                     |
| POWER LOSS                          | 2.8 W                                    |
| COLOR                               | Gray                                     |

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