



## Eaton 102201

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. FAZ-RT, 2-pole, tripping characteristic: C, rated current In: 3 A

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| <b>PRODUCT NAME</b>             | Eaton Moeller series<br>xEffect - FAZ-NA, FAZ-RT<br>MCB                                                                                                                                                                                                                                                                                                              |
| <b>CATALOG NUMBER</b>           | 102201                                                                                                                                                                                                                                                                                                                                                               |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 105 mm                                                                                                                                                                                                                                                                                                                                                               |
| <b>PRODUCT HEIGHT</b>           | 75.5 mm                                                                                                                                                                                                                                                                                                                                                              |
| <b>PRODUCT WIDTH</b>            | 35.4 mm                                                                                                                                                                                                                                                                                                                                                              |
| <b>PRODUCT WEIGHT</b>           | 0.251 kg                                                                                                                                                                                                                                                                                                                                                             |
| <b>COMPLIANCES</b>              | RoHS conform                                                                                                                                                                                                                                                                                                                                                         |
| <b>CERTIFICATIONS</b>           | IEC 60947-2<br>CSA (File No. 204453)<br>North America (UL listed,<br>CSA certified)<br>CE marking<br>CSA-C22.2 No. 5-09<br>Specially designed for<br>North America, suitable as<br>BCPD<br>IEC/EN 60947-2<br>UL 489, CSA C22.2 No. 5<br>UL 489<br>CSA (Class No. 1432-01)<br>UL (File No. E235139)<br>UL (Category Control<br>Number DIVQ)<br>EN45545-2<br>IEC 61373 |

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| <b>USED WITH</b>                                                                                        | Miniature circuit breaker<br>FAZ-RT                                                                                                             |
| <b>AMPERAGE RATING</b>                                                                                  | 3 A                                                                                                                                             |
| <b>VOLTAGE RATING</b>                                                                                   | 277 V AC / 480 V AC                                                                                                                             |
| <b>FEATURES</b>                                                                                         | Additional equipment<br>possible                                                                                                                |
| <b>10.10 TEMPERATURE RISE</b>                                                                           | The panel builder is<br>responsible for the<br>temperature rise<br>calculation. Eaton will<br>provide heat dissipation<br>data for the devices. |
| <b>10.11 SHORT-CIRCUIT<br/>RATING</b>                                                                   | Is the panel builder's<br>responsibility. The<br>specifications for the<br>switchgear must be<br>observed.                                      |
| <b>10.12 ELECTROMAGNETIC<br/>COMPATIBILITY</b>                                                          | Is the panel builder's<br>responsibility. The<br>specifications for the<br>switchgear must be<br>observed.                                      |
| <b>10.13 MECHANICAL<br/>FUNCTION</b>                                                                    | The device meets the<br>requirements, provided<br>the information in the<br>instruction leaflet (IL) is<br>observed.                            |
| <b>10.2.2 CORROSION<br/>RESISTANCE</b>                                                                  | Meets the product<br>standard's requirements.                                                                                                   |
| <b>10.2.3.1 VERIFICATION OF<br/>THERMAL STABILITY OF<br/>ENCLOSURES</b>                                 | Meets the product<br>standard's requirements.                                                                                                   |
| <b>10.2.3.2 VERIFICATION OF<br/>RESISTANCE OF<br/>INSULATING MATERIALS<br/>TO NORMAL HEAT</b>           | Meets the product<br>standard's requirements.                                                                                                   |
| <b>10.2.3.3 RESIST. OF<br/>INSUL. MAT. TO<br/>ABNORMAL HEAT/FIRE<br/>BY INTERNAL ELECT.<br/>EFFECTS</b> | Meets the product<br>standard's requirements.                                                                                                   |
| <b>10.2.4 RESISTANCE TO<br/>ULTRA-VIOLET (UV)<br/>RADIATION</b>                                         | Meets the product<br>standard's requirements.                                                                                                   |
| <b>10.2.5 LIFTING</b>                                                                                   | Does not apply, since the<br>entire switchgear needs to<br>be evaluated.                                                                        |
| <b>10.2.6 MECHANICAL<br/>IMPACT</b>                                                                     | Does not apply, since the<br>entire switchgear needs to<br>be evaluated.                                                                        |
| <b>10.2.7 INSCRIPTIONS</b>                                                                              | Meets the product<br>standard's requirements.                                                                                                   |

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| <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>FRAME</b>                                                    | 45 mm                                                              |
| <b>POLLUTION DEGREE</b>                                         | 2                                                                  |
| <b>MOUNTING METHOD</b>                                          | Top-hat rail IEC/EN 60715                                          |
| <b>DEGREE OF PROTECTION</b>                                     | IP20<br>IP20 (IEC)<br>UL/CSA Type: -<br>IP40 (when fitted)         |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 2.4 W                                                              |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 4 kV                                                               |
| <b>BREAKING CAPACITY</b>                                        | 10 kA (UL489)                                                      |
| <b>TERMINAL PROTECTION</b>                                      | Finger and hand touch safe, DGUV VS3, EN 50274                     |
| <b>TERMINALS (TOP AND BOTTOM)</b>                               | Twin-purpose terminals                                             |
| <b>TRIPPING CHARACTERISTIC</b>                                  | C                                                                  |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 75 °C                                                              |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                      | -25 °C                                                             |
| <b>BUILT-IN DEPTH</b>                                           | 70.5 mm                                                            |
| <b>CONNECTABLE CONDUCTOR CROSS</b>                              | 25 mm <sup>2</sup>                                                 |

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| <b>SECTION (MULTI-WIRED)<br/>- MAX</b>                                     |                                                                                                     |
| <b>CONNECTABLE<br/>CONDUCTOR CROSS<br/>SECTION (MULTI-WIRED)<br/>- MIN</b> | 1 mm <sup>2</sup>                                                                                   |
| <b>CONNECTABLE<br/>CONDUCTOR CROSS<br/>SECTION (SOLID-CORE) -<br/>MAX</b>  | 25 mm <sup>2</sup>                                                                                  |
| <b>CONNECTABLE<br/>CONDUCTOR CROSS<br/>SECTION (SOLID-CORE) -<br/>MIN</b>  | 1 mm <sup>2</sup>                                                                                   |
| <b>CURRENT LIMITING<br/>CLASS</b>                                          | 3                                                                                                   |
| <b>ENCLOSURE WIDTH</b>                                                     | 105 mm                                                                                              |
| <b>FREQUENCY RATING -<br/>MAX</b>                                          | 60 Hz                                                                                               |
| <b>FREQUENCY RATING -<br/>MIN</b>                                          | 50 Hz                                                                                               |
| <b>HEAT DISSIPATION<br/>CAPACITY</b>                                       | 0 W                                                                                                 |
| <b>HEAT DISSIPATION PER<br/>POLE, CURRENT-<br/>DEPENDENT</b>               | 0 W                                                                                                 |
| <b>DIRECTION OF<br/>INCOMING SUPPLY</b>                                    | As required                                                                                         |
| <b>WIDTH IN NUMBER OF<br/>MODULAR SPACINGS</b>                             | 2                                                                                                   |
| <b>VOLTAGE RATING (IEC/EN<br/>60947-2)</b>                                 | 440 V                                                                                               |
| <b>VOLTAGE RATING (UL)</b>                                                 | 480Y/277 V                                                                                          |
| <b>VOLTAGE RATING AT DC</b>                                                | 60 V DC                                                                                             |
| <b>VOLTAGE TYPE</b>                                                        | AC                                                                                                  |
| <b>MOUNTING POSITION</b>                                                   | As required                                                                                         |
| <b>OVERVOLTAGE<br/>CATEGORY</b>                                            | III                                                                                                 |
| <b>NUMBER OF POLES</b>                                                     | Two-pole                                                                                            |
| <b>FUNCTIONS</b>                                                           | Current limiting circuit<br>breaker                                                                 |
| <b>LIFESPAN, ELECTRICAL</b>                                                | 20000 operations                                                                                    |
| <b>RELEASE<br/>CHARACTERISTIC</b>                                          | C                                                                                                   |
| <b>TYPE</b>                                                                | <ul style="list-style-type: none"> <li>• FAZ-RT</li> <li>• Miniature circuit<br/>breaker</li> </ul> |
| <b>SPECIAL FEATURES</b>                                                    | Ambient temperature hint:<br>a 1 °C increase results in a                                           |

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|                                                                              | 0.5% linear reduction of current carrying capacity                                                                                                                                                                                                 |
| <b>APPLICATION</b>                                                           | <ul style="list-style-type: none"> <li>• Feeder circuits, branch circuits</li> <li>• Switchgear for industrial and advanced commercial applications</li> <li>• xEffect - Switchgear for industrial and advanced commercial applications</li> </ul> |
| <b>MOUNTING WIDTH</b>                                                        | 17.7 mm                                                                                                                                                                                                                                            |
| <b>SELECTIVITY CLASS</b>                                                     | 3                                                                                                                                                                                                                                                  |
| <b>MOUNTING WIDTH PER POLE</b>                                               | 17.7 mm                                                                                                                                                                                                                                            |
| <b>NUMBER OF POLES (PROTECTED)</b>                                           | 2                                                                                                                                                                                                                                                  |
| <b>NUMBER OF POLES (TOTAL)</b>                                               | 2                                                                                                                                                                                                                                                  |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                         | 440 V                                                                                                                                                                                                                                              |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>         | 3 A                                                                                                                                                                                                                                                |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>                                  | 415 V                                                                                                                                                                                                                                              |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICN AT 230 V</b> | 0 kA                                                                                                                                                                                                                                               |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V</b>  | 0 kA                                                                                                                                                                                                                                               |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V</b>     | 15 kA                                                                                                                                                                                                                                              |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V</b>     | 15 kA                                                                                                                                                                                                                                              |
| <b>RATED SWITCHING CAPACITY (IEC/EN 60947-2)</b>                             | 15 kA                                                                                                                                                                                                                                              |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>                        | 0 W                                                                                                                                                                                                                                                |
| <b>TIGHTENING TORQUE</b>                                                     | Max. 2.4 Nm<br>UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8                                                                                                                                                                                            |

|            |                                                                                  |
|------------|----------------------------------------------------------------------------------|
|            | UL: 2.4 Nm (21 lb-in) for<br>AWG 18 - AWG 12<br>UL: 4 Nm (36 lb-in) for<br>AWG 6 |
| POWER LOSS | 2.4 W                                                                            |

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



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