# Specifications






**Photo is representative**





## Eaton 259850

Eaton Moeller series NZM - Molded Case Circuit Breaker. Remote operator, 208-240VAC, for size 3

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller series NZM remote operator |
| **CATALOG NUMBER** | 259850 |
| **MODEL CODE** | NZM3-XR208-240AC |
| **EAN** | 4015082598501 |
| **PRODUCT LENGTH/DEPTH** | 170 mm |
| **PRODUCT HEIGHT** | 140 mm |
| **PRODUCT WIDTH** | 140 mm |
| **PRODUCT WEIGHT** | 3.155 kg |
| **COMPLIANCES** | UL/CSA<br>IEC<br>RoHS conform |
| **CERTIFICATIONS** | CSA (File No. 22086)<br>CE marking<br>CSA (Class No. 1437-01)<br>UL (File No. E140305)<br>UL489<br>IEC60947<br>UL listed<br>CSA certified<br>CSA-C22.2 No. 5-09<br>UL (Category Control Number DIHS) |

## Delivery program

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|---|---|
| **FRAME** | NZM3 |
| **NUMBER OF POLES** | Three-pole/Four-pole |
| **SPECIAL FEATURES** | • Cannot be combined with switch-disconnector PN...<br>• M22-CK11(20/02) dual auxiliary switch cannot be combined with NZM3-XR… remote operator |
| **TYPE** | • Accessory<br>• Remote operator, can be synchronized |
| **USED WITH** | NZM3(-4)<br>N(S)3(-4) |

## Design verification as per IEC/EN 61439

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| **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. |
| **10.2.5 LIFTING** | Does not apply, since the entire switchgear needs to be evaluated. |
| **10.2.6 MECHANICAL IMPACT** | Does not apply, since the entire switchgear needs to be evaluated. |
| **10.2.7 INSCRIPTIONS** | Meets the product standard's requirements. |
| **10.3 DEGREE OF PROTECTION OF ASSEMBLIES** | Does not apply, since the entire switchgear needs to be evaluated. |
| **10.4 CLEARANCES AND CREEPAGE DISTANCES** | Meets the product standard's requirements. |
| **10.5 PROTECTION AGAINST ELECTRIC SHOCK** | Does not apply, since the entire switchgear needs to be evaluated. |
| **10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS** | Does not apply, since the entire switchgear needs to be evaluated. |
| **10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS** | Is the panel builder's responsibility. |
| **10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS** | Is the panel builder's responsibility. |

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| **10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH** | Is the panel builder's responsibility. |
| **10.9.3 IMPULSE WITHSTAND VOLTAGE** | Is the panel builder's responsibility. |
| **10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL** | Is the panel builder's responsibility. |

## Technical data - electrical

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| **BREAKING TIME** | 1000 ms |
| **CLOSING DELAY** | 80 ms |
| **NUMBER OF OPERATIONS PER HOUR - MAX** | 60 |
| **OPERATING VOLTAGE - MAX** | 1.1 x Us |
| **OPERATING VOLTAGE - MIN** | 0.85 x Us |
| **POWER CONSUMPTION** | 350 VA (110 - 130 V AC) |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX** | 240 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN** | 208 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX** | 240 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN** | 208 V |
| **RATED OPERATING FREQUENCY** | 50 Hz |
| **SIGNAL DURATION OF REMOTE OPERATOR AT SWITCH OFF - MIN** | 250 ms |
| **SIGNAL DURATION OF REMOTE OPERATOR AT SWITCH ON - MIN** | 30 ms |
| **VOLTAGE RATING** | 208 - 240 V 50/60 Hz |
| **VOLTAGE TOLERANCE - MAX** | 1.1 |
| **VOLTAGE TOLERANCE - MIN** | 0.85 |
| **VOLTAGE TYPE** | AC |

## Technical data - mechanical

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|---|---|
| **LIFESPAN, MECHANICAL** | 15000 operations |
| **SPECIAL FEATURES** | • Cannot be combined with switch-disconnector PN...<br>• M22-CK11(20/02) dual auxiliary switch cannot be combined with NZM3-XR… remote operator |
| **SWITCH DRIVE TYPE** | Motor drive |

## Technical data - mechanical - terminals

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| **TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)** | 18 - 14 AWG<br>0.75 mm² - 2.5 mm² with ferrule |

## Resources

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| **BROCHURES** | eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf<br><br>eaton-digital-nzm-brochure-br013003en-en-us.pdf |

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|---|---|
| **CATALOGUES** | eaton-digital-nzm-catalog-ca013003en-en-us.pdf |
| **DECLARATIONS OF CONFORMITY** | eaton-accessories-declaration-of-conformity-eu250142en.pdf<br><br>eaton-accessories-declaration-of-conformity-uk251456en.pdf |
| **DRAWINGS** | eaton-circuit-breaker-padlock-nzm-rotary-handle-dimensions.eps<br><br>eaton-circuit-breaker-remote-operator-nzm-remote-operator-dimensions-004.eps |
| **ECAD MODEL** | ETN.259850.edz |
| **INSTALLATION INSTRUCTIONS** | eaton-remote-operator-nzm3-xr-il01208006z.pdf |
| **INSTALLATION VIDEOS** | Introduction of the new digital circuit breaker NZM<br><br>The new digital NZM Range |
| **MCAD MODEL** | DA-CS-nzm3_xr |
| **TECHNICAL DATA SHEETS** | eaton-nzm-technical-information-sheet |

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

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