

Specifications



Photo is representative

Eaton 259659

Eaton Moeller series NZM Undervoltage release, 24VDC, +2early N/O

General specifications

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| PRODUCT NAME | Eaton Moeller series NZM Undervoltage release |
| CATALOG NUMBER | 259659 |
| MODEL CODE | NZM2/3-XUHV2024DC |
| EAN | 4015082596590 |
| PRODUCT LENGTH/DEPTH | 42 mm |
| PRODUCT HEIGHT | 90 mm |
| PRODUCT WIDTH | 30 mm |
| PRODUCT WEIGHT | 0.132 kg |
| COMPLIANCES | IEC UL/CSA RoHS conform |
| CERTIFICATIONS | IEC60947 UL (File No. E140305) CE marking CSA (File No. 22086) CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) UL listed CSA certified CSA (Class No. 1437-01) UL489 |
| GLOBAL CATALOG | 259659 |

Product specifications

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| USED WITH | NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4) |
| 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 | Does not apply, since the |

Resources

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| BROCHURES | eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf eaton-digital-nzm-brochure-br013003en-en-us.pdf |
| CATALOGS | eaton-digital-nzm-catalog-ca013003en-en-us.pdf |
| ECAD MODEL | DA-CE-ETN.NZM2_3-XUHIV2024DC |
| INSTALLATION INSTRUCTIONS | eaton-circuit-breaker-voltage-release-nzm2-3-il012141zu.pdf |
| INSTALLATION VIDEOS | The new digital NZM Range Introduction of the new digital circuit breaker NZM |
| TECHNICAL DATA SHEETS | eaton-nzm-technical-information-sheet |

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| PROTECTION OF ASSEMBLIES | 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. |
| 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. |
| ELECTRIC CONNECTION TYPE | Screw connection |
| FITTED WITH: | Two separate early-make auxiliary contacts |
| FRAME | NZM2/3 |
| MINIMUM COMMAND TIME - MAX | 15 ms |
| MINIMUM COMMAND TIME - MIN | 10 ms |
| NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS) | 2 |
| REACTION TIME | 19 ms |
| PICK-UP POWER CONSUMPTION AT AC (UNDervOLTAGE RELEASE) | 1.5 VA |
| PICK-UP POWER CONSUMPTION AT DC (UNDervOLTAGE RELEASE) | 0.8 W |
| VOLTAGE TOLERANCE - MAX | 1.1 |
| VOLTAGE TOLERANCE - MIN | .85 |

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| RATED CONTROL SUPPLY VOLTAGE | 24 V DC |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX | 0 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN | 0 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX | 0 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN | 0 V |
| SUITABLE FOR | Off-load switch |
| CONNECTION TYPE | Contacts 3.23 and 3.24 with separate 3 m connection cables |
| VOLTAGE TYPE | DC |
| DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MAX | 0.7 x U _s |
| DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MIN | 0.35 x U _s |
| TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR) | 0.75 mm ² - 2.5 mm ² (1x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x) at shunt release with ferrule 18 - 14 AWG (1x) at shunt release 18 - 14 AWG (2x) at shunt release 0.75 mm ² - 2.5 mm ² (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm ² - 2.5 mm ² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed |
| TYPE | Accessory Undervoltage release Undervoltage release with early-make auxiliary contact |
| SPECIAL FEATURES | Undervoltage release with 2 early-make auxiliary contacts, e.g., for early- |

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| | <p>make connection of undervoltage release in main switch applications, as well as for interlock and load shedding circuits. For use with emergency-stop devices in connection with an emergency-stop button. When the undervoltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Cannot be used in conjunction with NZM...-XR... remote operator. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.</p> |
| POWER CONSUMPTION | <p>1.5 VA (sealing AC) 0.8 W (sealing DC)</p> |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX | 24 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN | 24 V |
| NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS) | 0 |
| NUMBER OF CONTACTS (CHANGE-OVER CONTACTS) | 0 |
| UNDELAYED SHORT-CIRCUIT RELEASE - MIN | 0 A |
| UNDELAYED SHORT-CIRCUIT RELEASE - MAX | 0 A |
| RATED CONTROL VOLTAGE (RELAY CONTACTS) | 24 V DC |

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



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