

# Specifications



Photo is representative

## Eaton 266244

Eaton Moeller series NZM Undervoltage release, 24VAC, +2early N/O, for NZM4, 20

### General specifications

|                             |                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series NZM Undervoltage release                                                                                                                                                        |
| <b>CATALOG NUMBER</b>       | 266244                                                                                                                                                                                               |
| <b>MODEL CODE</b>           | NZM4-XUHIV2024AC                                                                                                                                                                                     |
| <b>EAN</b>                  | 4015082662448                                                                                                                                                                                        |
| <b>PRODUCT LENGTH/DEPTH</b> | 107 mm                                                                                                                                                                                               |
| <b>PRODUCT HEIGHT</b>       | 51 mm                                                                                                                                                                                                |
| <b>PRODUCT WIDTH</b>        | 64 mm                                                                                                                                                                                                |
| <b>PRODUCT WEIGHT</b>       | 0.24 kg                                                                                                                                                                                              |
| <b>COMPLIANCES</b>          | UL/CSA<br>IEC<br>RoHS conform                                                                                                                                                                        |
| <b>CERTIFICATIONS</b>       | UL489<br>CSA-C22.2 No. 5-09<br>UL (Category Control Number DIHS)<br>UL listed<br>CSA (Class No. 1437-01)<br>CE marking<br>CSA (File No. 22086)<br>UL (File No. E140305)<br>CSA certified<br>IEC60947 |
| <b>GLOBAL CATALOG</b>       | 266244                                                                                                                                                                                               |

## Product specifications

|                                                                                         |                                                                                                                                  |
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| <b>USED WITH</b>                                                                        | NZM4(-4), N(S)4(-4)                                                                                                              |
| <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.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF</b>                                                     | Does not apply, since the entire switchgear needs to                                                                             |

## Resources

|                                  |                                                                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BROCHURES</b>                 | <a href="#">eaton-digital-nzm-brochure-br013003en-en-us.pdf</a><br><a href="#">eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf</a>                                                                         |
| <b>CATALOGS</b>                  | <a href="#">eaton-digital-nzm-catalog-ca013003en-en-us.pdf</a>                                                                                                                                                           |
| <b>ECAD MODEL</b>                | <a href="#">DA-CE-ETN.NZM4-XUHIV2024AC</a>                                                                                                                                                                               |
| <b>INSTALLATION INSTRUCTIONS</b> | <a href="#">eaton-circuit-breaker-voltage-release-nzm4-il012143zu.pdf</a><br><a href="#">eaton-circuit-breaker-voltage-release-nzm4-il01210005z.pdf</a><br><a href="#">eaton-nzm1-xdtv-r-nzm2-xdtv-r-il01206003z.pdf</a> |
| <b>INSTALLATION VIDEOS</b>       | <a href="#">Introduction of the new digital circuit breaker NZM</a><br><a href="#">The new digital NZM Range</a>                                                                                                         |
| <b>TECHNICAL DATA SHEETS</b>     | <a href="#">eaton-nzm-technical-information-sheet</a>                                                                                                                                                                    |

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| <b>ASSEMBLIES</b>                                               | 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>ELECTRIC CONNECTION TYPE</b>                                 | Screw connection                                                   |
| <b>FITTED WITH:</b>                                             | Two separate early-make auxiliary contacts                         |
| <b>FRAME</b>                                                    | NZM4                                                               |
| <b>MINIMUM COMMAND TIME - MAX</b>                               | 15 ms                                                              |
| <b>MINIMUM COMMAND TIME - MIN</b>                               | 10 ms                                                              |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>              | 2                                                                  |
| <b>REACTION TIME</b>                                            | 23 ms                                                              |
| <b>PICK-UP POWER CONSUMPTION AT AC (UNDERVOLTAGE RELEASE)</b>   | 3.6 VA                                                             |
| <b>PICK-UP POWER CONSUMPTION AT DC (UNDERVOLTAGE RELEASE)</b>   | 2.5 W                                                              |
| <b>VOLTAGE TOLERANCE - MAX</b>                                  | 1.1                                                                |
| <b>VOLTAGE TOLERANCE - MIN</b>                                  | .85                                                                |
| <b>RATED CONTROL SUPPLY</b>                                     | 24 V 50/60 Hz                                                      |

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

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      | <p>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 (manual operation): approx. 90 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> |
| <b>POWER CONSUMPTION</b>                             | <p>2.5 W (sealing DC)<br/>3.6 VA (Sealing AC)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b> | 0 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b> | 0 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UNDELAYED SHORT-CIRCUIT RELEASE - MIN</b>         | 0 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UNDELAYED SHORT-CIRCUIT RELEASE - MAX</b>         | 0 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RATED CONTROL VOLTAGE (RELAY CONTACTS)</b>        | 24 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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



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