

# Specifications



## Eaton 266451

Eaton Moeller series NZM - Molded Case Circuit Breaker. Shunt release, 208-240VAC/DC, 4

### General specifications

|                             |                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series NZM - Molded case circuit breaker                                                                                                                                               |
| <b>CATALOG NUMBER</b>       | 266451                                                                                                                                                                                               |
| <b>MODEL CODE</b>           | NZM4-XA208-250AC/DC                                                                                                                                                                                  |
| <b>EAN</b>                  | 4015082664510                                                                                                                                                                                        |
| <b>PRODUCT LENGTH/DEPTH</b> | 107 mm                                                                                                                                                                                               |
| <b>PRODUCT HEIGHT</b>       | 51 mm                                                                                                                                                                                                |
| <b>PRODUCT WIDTH</b>        | 64 mm                                                                                                                                                                                                |
| <b>PRODUCT WEIGHT</b>       | 0.256 kg                                                                                                                                                                                             |
| <b>COMPLIANCES</b>          | UL/CSA<br>IEC<br>RoHS conform                                                                                                                                                                        |
| <b>CERTIFICATIONS</b>       | CSA (File No. 22086)<br>UL (File No. E140305)<br>UL (Category Control Number DIHS)<br>CE marking<br>IEC60947<br>UL listed<br>CSA (Class No. 1437-01)<br>UL489<br>CSA-C22.2 No. 5-09<br>CSA certified |



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## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>USED WITH</b>                                                                        | NZM4(-4), N(S)4(-4)                                                                                                              |
| <b>VOLTAGE RATING</b>                                                                   | 0.7 - 1.1 x Us                                                                                                                   |
| <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</b>                                                                   | Does not apply, since the                                                                                                        |

## Resources

|                                  |                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BROCHURES</b>                 | <a href="#">eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf</a><br><a href="#">eaton-digital-nzm-brochure-br013003en-en-us.pdf</a>        |
| <b>CATALOGUES</b>                | <a href="#">eaton-digital-nzm-catalog-ca013003en-en-us.pdf</a>                                                                                          |
| <b>DRAWINGS</b>                  | <a href="#">eaton-circuit-breaker-auxiliary-contact-nzm-shunt-release-3d-drawing.eps</a>                                                                |
| <b>ECAD MODEL</b>                | <a href="#">DA-CE-ETN.NZM4-XA208-250AC_DC</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> |
| <b>INSTALLATION VIDEOS</b>       | <a href="#">The new digital NZM Range</a><br><a href="#">Introduction of the new digital circuit breaker NZM</a>                                        |
| <b>TECHNICAL DATA SHEETS</b>     | <a href="#">eaton-nzm-technical-information-sheet</a>                                                                                                   |

|                                                                 |                                                                    |
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| <b>PROTECTION OF ASSEMBLIES</b>                                 | 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>ELECTRIC CONNECTION TYPE</b>                                 | Screw connection                                                   |
| <b>FRAME</b>                                                    | NZM4                                                               |
| <b>FREQUENCY RATING</b>                                         | 50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release)                |
| <b>MINIMUM COMMAND TIME - MAX</b>                               | 15 ms                                                              |
| <b>MINIMUM COMMAND TIME - MIN</b>                               | 10 ms                                                              |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>              | 0                                                                  |
| <b>REACTION TIME</b>                                            | 22 ms                                                              |
| <b>PICK-UP POWER CONSUMPTION (SHUNT RELEASE)</b>                | 2.5 VA/W                                                           |
| <b>RATED CONTROL SUPPLY VOLTAGE</b>                             | 208 - 250 V AC/DC                                                  |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>     | 250 V                                                              |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>     | 208 V                                                              |
| <b>RATED CONTROL SUPPLY</b>                                     | 250 V                                                              |

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VOLTAGE (US) AT AC, 60 HZ - MAX</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b> | 208 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>SUITABLE FOR</b>                                         | Off-load switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>CONNECTION TYPE</b>                                      | With bolt connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>VOLTAGE TYPE</b>                                         | AC/DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)</b>         | <p>0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) at shunt release with ferrule</p> <p>18 - 14 AWG (1x) at shunt release</p> <p>18 - 14 AWG (2x) at shunt release</p> <p>0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) at shunt release with ferrule</p> <p>0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) for undervoltage releases, off-delayed with ferrule</p> <p>18 - 14 AWG (1x) for undervoltage releases, off-delayed</p> <p>0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) for undervoltage releases, off-delayed with ferrule</p> <p>18 - 14 AWG (2x) for undervoltage releases, off-delayed</p> |
| <b>TYPE</b>                                                 | <ul style="list-style-type: none"> <li>• Accessory</li> <li>• Shunt release</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>SPECIAL FEATURES</b>                                     | <ul style="list-style-type: none"> <li>• Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.</li> <li>• If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on.</li> <li>• Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.</li> </ul>                                                                                                                                                                                |

|                                                              |                                              |
|--------------------------------------------------------------|----------------------------------------------|
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MAX</b> | 250 V                                        |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MIN</b> | 208 V                                        |
| <b>VOLTAGE RATING AT AC<br/>(X US) - MAX</b>                 | 1.1                                          |
| <b>VOLTAGE RATING AT AC<br/>(X US) - MIN</b>                 | .7                                           |
| <b>NUMBER OF CONTACTS<br/>(NORMALLY CLOSED<br/>CONTACTS)</b> | 0                                            |
| <b>NUMBER OF CONTACTS<br/>(CHANGE-OVER<br/>CONTACTS)</b>     | 0                                            |
| <b>UNDELAYED SHORT-<br/>CIRCUIT RELEASE - MIN</b>            | 0 A                                          |
| <b>UNDELAYED SHORT-<br/>CIRCUIT RELEASE - MAX</b>            | 0 A                                          |
| <b>TIME ON DUTY - MAX</b>                                    | ∞                                            |
| <b>RATED CONTROL<br/>VOLTAGE (RELAY<br/>CONTACTS)</b>        | 250 V DC<br>208 V DC<br>250 V AC<br>208 V AC |

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|------------------------|
| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
| <b>DATE:</b>           |



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