

# Specifications



Photo is representative

## Eaton 271457

Eaton Moeller series NZM - Molded Case Circuit Breaker. Tunnel terminal, 3p, 1 page, size 2

### General specifications

|                             |                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series NZM connection type                                                                                                                                                            |
| <b>CATALOG NUMBER</b>       | 271457                                                                                                                                                                                              |
| <b>MODEL CODE</b>           | NZM2-XKA                                                                                                                                                                                            |
| <b>EAN</b>                  | 4015082714574                                                                                                                                                                                       |
| <b>PRODUCT LENGTH/DEPTH</b> | 76 mm                                                                                                                                                                                               |
| <b>PRODUCT HEIGHT</b>       | 85 mm                                                                                                                                                                                               |
| <b>PRODUCT WIDTH</b>        | 102 mm                                                                                                                                                                                              |
| <b>PRODUCT WEIGHT</b>       | 0.517 kg                                                                                                                                                                                            |
| <b>COMPLIANCES</b>          | UL/CSA<br>IEC<br>RoHS conform                                                                                                                                                                       |
| <b>CERTIFICATIONS</b>       | UL (Category Control Number DIHS)<br>CSA (Class No. 1432-01)<br>CSA (File No. 22086)<br>UL (File No. E31593)<br>CSA certified<br>UL489<br>UL listed<br>IEC60947<br>CE marking<br>CSA-C22.2 No. 5-09 |

### Additional information

**MODEL**

Other

### Delivery programme

**AMPERAGE RATING**

300 A (Cu), 225 A (Al)

**FRAME**

NZM2

**NUMBER OF POLES**

Three-pole

**SUITABLE FOR**

Copper cable  
Three-pole

**TYPE**

- Accessory
- Tunnel terminal

**USED WITH**

NZM2, PN2, N(S)2

## Design verification to IEC/EN 61439

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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 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</b>                                                                  | Does not apply, since the                                                                                                        |

## Technical data - electrical

|                        |                        |
|------------------------|------------------------|
| <b>AMPERAGE RATING</b> | 300 A (Cu), 225 A (Al) |
|------------------------|------------------------|

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                   | 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.                             |

## Technical data - mechanical - terminals

|                                           |                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------|
| <b>TERMINAL CAPACITY (STRANDED CABLE)</b> | Max. 240 mm <sup>2</sup> at digital input of supply connection          |
|                                           | 6 - 350 AWG/kcmil (1x)<br>16 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) |

## Resources

|                           |                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------|
| BROCHURES                 | <a href="#">eaton-digital-nzm-brochure-br013003en-en-us.pdf</a>                        |
|                           | <a href="#">eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf</a>          |
| CATALOGUES                | <a href="#">eaton-digital-nzm-catalog-ca013003en-en-us.pdf</a>                         |
| DRAWINGS                  | <a href="#">eaton-circuit-breaker-terminals-nzm-tunnel-terminal-dimensions-004.eps</a> |
|                           | <a href="#">eaton-circuit-breaker-terminals-nzm-tunnel-terminal-3d-drawing-004.eps</a> |
| INSTALLATION INSTRUCTIONS | <a href="#">eaton-circuit-breaker-tunnel-terminal-nzm2-3-il01210007z.pdf</a>           |
| INSTALLATION VIDEOS       | <a href="#">The new digital NZM Range</a>                                              |
|                           | <a href="#">Introduction of the new digital circuit breaker NZM</a>                    |
| MCAD MODEL                | <a href="#">nzm2_xka.stp</a>                                                           |
|                           | <a href="#">eaton-mccb-terminals-mcad-drawings-nzm2-xka.dwg</a>                        |
| TECHNICAL DATA SHEETS     | <a href="#">eaton-nzm-technical-information-sheet</a>                                  |

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



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