

# Specifications



Photo is representative

## Eaton 168487

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 400A, plug-in module, NZMN3-A400-SVE

### General specifications

|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series NZM molded case circuit breaker thermo-magnetic |
| <b>CATALOG NUMBER</b>       | 168487                                                               |
| <b>MODEL CODE</b>           | NZMN3-A400-SVE                                                       |
| <b>EAN</b>                  | 4015081649679                                                        |
| <b>PRODUCT LENGTH/DEPTH</b> | 335 mm                                                               |
| <b>PRODUCT HEIGHT</b>       | 215.2 mm                                                             |
| <b>PRODUCT WIDTH</b>        | 140 mm                                                               |
| <b>PRODUCT WEIGHT</b>       | 6.38 kg                                                              |
| <b>COMPLIANCES</b>          | RoHS conform                                                         |

## Delivery programme

|                         |                                                          |
|-------------------------|----------------------------------------------------------|
| <b>AMPERAGE RATING</b>  | 400 A                                                    |
| <b>FEATURES</b>         | Motor drive optional<br>Protection unit                  |
| <b>NUMBER OF POLES</b>  | Three-pole                                               |
| <b>SPECIAL FEATURES</b> | Rated current = rated<br>uninterrupted current: 400<br>A |

## 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                                                                                                        |

## Design verification to IEC/EN 61439 - technical data

|                                                               |         |
|---------------------------------------------------------------|---------|
| AMBIENT OPERATING TEMPERATURE - MAX                           | 70 °C   |
| AMBIENT STORAGE TEMPERATURE - MAX                             | 70 °C   |
| AMBIENT OPERATING TEMPERATURE - MIN                           | -25 °C  |
| AMBIENT STORAGE TEMPERATURE - MIN                             | 40 °C   |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT                 | 72.48 W |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 400 A   |

|                                                          |                                                                    |
|----------------------------------------------------------|--------------------------------------------------------------------|
| AGAINST ELECTRIC SHOCK                                   | 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.                             |

## Technical data - electrical

|                                                                                 |                  |
|---------------------------------------------------------------------------------|------------------|
| AMPERAGE RATING                                                                 | 400 A            |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT                                      | Screw connection |
| HANDLE TYPE                                                                     | Rocker lever     |
| INSTANTANEOUS CURRENT SETTING (II) - MAX                                        | 4000 A           |
| INSTANTANEOUS CURRENT SETTING (II) - MIN                                        | 1920 A           |
| OVERLOAD CURRENT SETTING (IR) - MAX                                             | 400 A            |
| OVERLOAD CURRENT SETTING (IR) - MIN                                             | 320 A            |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ | 50 kA            |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 500 V DC            | 30 kA            |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 750 V DC            | 30 kA            |
| SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX                                 | 4000 A           |
| SHORT-CIRCUIT RELEASE                                                           | 2400 A           |

## Technical data - mechanical

|                                                                |                                                    |
|----------------------------------------------------------------|----------------------------------------------------|
| <b>DEGREE OF PROTECTION</b>                                    | IP20                                               |
| <b>MOUNTING METHOD</b>                                         | Built-in device plug-in technique                  |
| <b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0                                                  |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0                                                  |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 0                                                  |
| <b>POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT</b>         | Front side                                         |
| <b>SPECIAL FEATURES</b>                                        | Rated current = rated uninterrupted current: 400 A |

## NON-DELAYED SETTING - MIN

|                       |               |
|-----------------------|---------------|
| <b>VOLTAGE RATING</b> | 690 V - 690 V |
|-----------------------|---------------|

## Resources

|                            |                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROCHURES                  | <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>                                         |
| CATALOGUES                 | <a href="#">eaton-digital-nzm-catalog-ca013003en-en-us.pdf</a>                                                                                                                           |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-molded-case-circuit-breaker-declaration-of-conformity-uk251454en.pdf</a><br><a href="#">eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250292en.pdf</a> |
| ECAD MODEL                 | <a href="#">DA-CE-ETN.NZMN3-A400-SVE</a>                                                                                                                                                 |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-circuit-breaker-plug-in-adapter-nzm2-il01219023z.pdf</a>                                                                                                               |
| INSTALLATION VIDEOS        | <a href="#">Introduction of the new digital circuit breaker NZM</a><br><a href="#">The new digital NZM Range</a>                                                                         |
| MCAD MODEL                 | <a href="#">eaton-molded-case-switches-mcad-drawings-nzm3-3p-xsve.dwg</a><br><a href="#">eaton-molded-case-switches-mcad-3d-models-nzm3-3p-xsve.stp</a>                                  |
| PEP ECO-PASSPORT           | <a href="#">eaton-molded-case-switches-pep-eato-00231-v0101-en.pdf</a>                                                                                                                   |
| TECHNICAL DATA SHEETS      | <a href="#">eaton-nzm-technical-information-sheet</a>                                                                                                                                    |

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



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