

# Specifications



## Eaton 113734

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 3p 200A +pull out

### General specifications

|                             |                                              |
|-----------------------------|----------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series NZM switch-disconnector |
| <b>CATALOG NUMBER</b>       | 113734                                       |
| <b>MODEL CODE</b>           | N2-200-SVE                                   |
| <b>EAN</b>                  | 4015081132744                                |
| <b>PRODUCT LENGTH/DEPTH</b> | 180 mm                                       |
| <b>PRODUCT HEIGHT</b>       | 245 mm                                       |
| <b>PRODUCT WIDTH</b>        | 105 mm                                       |
| <b>PRODUCT WEIGHT</b>       | 2.368 kg                                     |
| <b>COMPLIANCES</b>          | RoHS conform                                 |
| <b>CERTIFICATIONS</b>       | IEC<br>IEC/EN 60947                          |



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## Additional information

### FUNCTIONS

Interlockable  
Disconnectors/main  
switches  
Voltage release optional

## Delivery programme

**ACCESSORIES REQUIRED** NZM2-XSVS socket base

**AMPERAGE RATING** 200 A

**APPLICATION** Use in unearthed supply systems at 690 V

**CIRCUIT BREAKER FRAME TYPE** N2

### FEATURES

Version as emergency stop installation  
Motor drive optional  
Version as maintenance-/service switch  
Version as main switch

**NUMBER OF POLES** Three-pole

### SPECIAL FEATURES

- Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113.
- Isolating characteristics to IEC/EN 60947-3 and VDE 0660.
- Busbar tag shroud to VDE 0160 Part 100.
- Rated current = rated uninterrupted current: 200 A
- The rated short-time withstand current for PN2/N2 in conjunction with earth-fault release NZM2-4-XFI...Icw = 1.5 kA

**TYPE** Switch-disconnector

## 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

|                                                                      |         |
|----------------------------------------------------------------------|---------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                           | 70 °C   |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>                             | 70 °C   |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                           | -25 °C  |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>                             | 40 °C   |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>                 | 30.72 W |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 200 A   |

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| <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 - electrical

|                                                                     |                                                                                                                                                                                                      |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AMPERAGE RATING</b>                                              | 200 A                                                                                                                                                                                                |
| <b>DIRECTION OF INCOMING SUPPLY</b>                                 | As required                                                                                                                                                                                          |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>                   | Screw connection                                                                                                                                                                                     |
| <b>HANDLE TYPE</b>                                                  | Rocker lever                                                                                                                                                                                         |
| <b>ISOLATION</b>                                                    | 500 V AC (between auxiliary contacts and main contacts)<br>300 V AC (between the auxiliary contacts)                                                                                                 |
| <b>LIFESPAN, ELECTRICAL</b>                                         | 5000 operations at 690 V AC-3<br>7500 operations at 415 V AC-3<br>7500 operations at 690 V AC-1<br>10000 operations at 400 V AC-1<br>7500 operations at 400 V AC-3<br>10000 operations at 415 V AC-1 |
| <b>NUMBER OF OPERATIONS PER HOUR - MAX</b>                          | 120                                                                                                                                                                                                  |
| <b>OVERVOLTAGE CATEGORY</b>                                         | III                                                                                                                                                                                                  |
| <b>POLLUTION DEGREE</b>                                             | 3                                                                                                                                                                                                    |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH BACK-UP FUSE</b>    | 80 kA at 690 V<br>100 kA at 400/415 V<br>PN2(N2)-160...250: 250 AgGgL                                                                                                                                |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH DOWNSTREAM FUSE</b> | 80 kA at 690 V<br>100 kA at 400/415 V<br>PN2(N2)-160...250: 250 AgGgL                                                                                                                                |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS</b> | 6000 V                                                                                                                                                                                               |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS</b>      | 8000 V                                                                                                                                                                                               |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                | 690 V                                                                                                                                                                                                |
| <b>RATED OPERATING FREQUENCY</b>                                    | 50 Hz                                                                                                                                                                                                |
| <b>RATED OPERATING POWER AT AC-23, 400 V</b>                        | 110 kW                                                                                                                                                                                               |

## Technical data - mechanical

|                                                                |                                                                                                                                                                                                         |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLIMATIC PROOFING</b>                                       | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78                                                                                                                          |
| <b>DEGREE OF PROTECTION</b>                                    | IP20 (basic protection type, in the area of the HMI devices)<br>Other                                                                                                                                   |
| <b>DEGREE OF PROTECTION (IP), FRONT SIDE</b>                   | IP40 (with insulating surround)<br>IP66 (with door coupling rotary handle)<br>IP20                                                                                                                      |
| <b>DEGREE OF PROTECTION (TERMINATIONS)</b>                     | IP00 (terminations, phase isolator and band terminal)<br>IP10 (tunnel terminal)                                                                                                                         |
| <b>HANDLE COLOR</b>                                            | Black                                                                                                                                                                                                   |
| <b>LIFESPAN, MECHANICAL</b>                                    | 20000 operations                                                                                                                                                                                        |
| <b>MOUNTING METHOD</b>                                         | Distribution board installation<br>Built-in device plug-in technique<br>Intermediate mounting<br>Plug-in unit<br>Ground mounting                                                                        |
| <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>NUMBER OF SWITCHES</b>                                      | 1                                                                                                                                                                                                       |
| <b>PROTECTION AGAINST DIRECT CONTACT</b>                       | Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110                                                                                                                                         |
| <b>SHOCK RESISTANCE</b>                                        | 20 g (half-sinusoidal shock 20 ms)                                                                                                                                                                      |
| <b>SPECIAL FEATURES</b>                                        | <ul style="list-style-type: none"> <li>Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113.</li> <li>Isolating characteristics to IEC/EN 60947-3 and VDE 0660.</li> </ul> |

|                                                                   |                                                                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>RATED OPERATING VOLTAGE (UE) AT AC - MAX</b>                   | 690 V                                                                                                          |
| <b>RATED OPERATIONAL CURRENT</b>                                  | 250 A (415 V AC-22/23A, making and breaking capacity)<br>250 A (690 V AC-22/23A, making and breaking capacity) |
| <b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ</b> | 5.5 kA                                                                                                         |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>                   | 3.5 kA                                                                                                         |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)</b>             | 3.5 kA                                                                                                         |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)</b>               | 3.5 kA                                                                                                         |
| <b>SHORT-CIRCUIT PROTECTIVE DEVICE FUSES - MAX</b>                | 250 A gL                                                                                                       |
| <b>VOLTAGE RATING</b>                                             | 690 V - 690 V                                                                                                  |

|                         |                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | <ul style="list-style-type: none"> <li>• Busbar tag shroud to VDE 0160 Part 100.</li> <li>• Rated current = rated uninterrupted current: 200 A</li> <li>• The rated short-time withstand current for PN2/N2 in conjunction with earth-fault release NZM2-4-XFI...Icw = 1.5 kA</li> </ul> |
| <b>SWITCH POSITIONS</b> | I, +, 0                                                                                                                                                                                                                                                                                  |

## Technical data - mechanical - terminals

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TERMINAL CAPACITY<br/>(ALUMINUM SOLID<br/>CONDUCTOR/CABLE)</b>    | 16 mm <sup>2</sup> (1x) at tunnel terminal<br>10 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) direct at switch rear-side connection<br>10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) direct at switch rear-side connection                                                                                                                                                                |
| <b>TERMINAL CAPACITY<br/>(ALUMINUM STRANDED<br/>CONDUCTOR/CABLE)</b> | 25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at 1-hole tunnel terminal                                                                                                                                                                                                                                                                                                               |
| <b>TERMINAL CAPACITY<br/>(COPPER BUSBAR)</b>                         | Min. 16 mm x 5 mm direct at switch rear-side connection<br>Max. 24 mm x 8 mm direct at switch rear-side connection<br>M8 at rear-side screw connection                                                                                                                                                                                                                                |
| <b>TERMINAL CAPACITY<br/>(COPPER SOLID<br/>CONDUCTOR/CABLE)</b>      | 6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) direct at switch rear-side connection<br>10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) direct at switch rear-side connection<br>16 mm <sup>2</sup> (1x) at tunnel terminal<br>10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) at box terminal<br>6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) at box terminal                                  |
| <b>TERMINAL CAPACITY<br/>(COPPER STRANDED<br/>CONDUCTOR/CABLE)</b>   | 25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at box terminal<br>25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) direct at switch rear-side connection<br>25 mm <sup>2</sup> - 70 mm <sup>2</sup> (2x) direct at switch rear-side connection<br>25 mm <sup>2</sup> - 70 mm <sup>2</sup> (2x) at box terminal<br>25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at 1-hole tunnel terminal |
| <b>TERMINAL CAPACITY<br/>(COPPER STRIP)</b>                          | Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched)<br>Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched)<br>Min. 2 segments of 9 mm x 0.8 mm at box terminal<br>Max. 10 segments of 16 mm x 0.8 mm at box terminal<br>Max. 8 segments of 15.5 mm x 0.8 mm (2x) at box                                                                              |

## 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-switch-disconnector-declaration-of-conformity-eu250126en.pdf</a>                                                                                                                                    |
| DRAWINGS                   | <a href="#">eaton-circuit-breaker-nzm-mccb-dimensions-019.eps</a><br><a href="#">eaton-circuit-breaker-switch-nzm-mccb-dimensions-017.eps</a><br><a href="#">eaton-circuit-breaker-switch-nzm-mccb-3d-drawing.eps</a> |
| ECAD MODEL                 | <a href="#">DA-CE-ETN.N2-200-SVE</a>                                                                                                                                                                                  |
| INSTALLATION VIDEOS        | <a href="#">The new digital NZM Range</a><br><a href="#">Introduction of the new digital circuit breaker NZM</a>                                                                                                      |
| MCAD MODEL                 | <a href="#">eaton-molded-case-switches-mcad-drawings-nzm2-xsve.dwg</a><br><a href="#">DA-CS-nzm2_xsve</a>                                                                                                             |
| PEP ECO-PASSPORT           | <a href="#">eaton-switch-disconnectors-pep-eato-00196-v0101-en.pdf</a>                                                                                                                                                |
| TECHNICAL DATA SHEETS      | <a href="#">eaton-nzm-technical-information-sheet</a>                                                                                                                                                                 |

terminal

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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