

# Specifikace



Foto je ilustrační

## Eaton 265979

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 1000A, 630A in 4th pole, N4-4-VE1000/630

### General specifications

|                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series NZM molded case circuit breaker electronic |
| <b>CATALOG NUMBER</b>       | 265979                                                          |
| <b>EAN</b>                  | 4015082659790                                                   |
| <b>PRODUCT LENGTH/DEPTH</b> | 401 mm                                                          |
| <b>PRODUCT HEIGHT</b>       | 207 mm                                                          |
| <b>PRODUCT WIDTH</b>        | 280 mm                                                          |
| <b>PRODUCT WEIGHT</b>       | 25.197 kg                                                       |
| <b>COMPLIANCES</b>          | RoHS conform                                                    |
| <b>CERTIFICATIONS</b>       | IEC/EN 60947<br>IEC                                             |
| <b>MODEL CODE</b>           | NZMN4-4-VE1000/630                                              |



Powering Business Worldwide

## Technické údaje produktu

|                                                                                         |                                                                                                                                  |
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| <b>AMPERAGE RATING</b>                                                                  | 1000 A                                                                                                                           |
| <b>VOLTAGE RATING</b>                                                                   | 690 V - 690 V                                                                                                                    |
| <b>CIRCUIT BREAKER FRAME TYPE</b>                                                       | NZM4                                                                                                                             |
| <b>FEATURES</b>                                                                         | Protection unit<br>Motor drive optional                                                                                          |
| <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.                                                                                       |

## Zdroje

|                            |                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250294en.pdf</a>                                                                 |
| ECAD MODEL                 | <a href="#">ETN.265979.edz</a>                                                                                                                             |
| CHARACTERISTIC CURVE       | <a href="#">eaton-circuit-breaker-nzm-mccb-characteristic-curve-049.eps</a><br><a href="#">eaton-circuit-breaker-nzm-mccb-characteristic-curve-048.eps</a> |
| INSTALAČNÍ NÁVODY          | <a href="#">eaton-circuit-breaker-basic-unit-nzmn4-il01210010z.pdf</a>                                                                                     |
| MCAD MODEL                 | <a href="#">DA-CS-nzm4_4p</a><br><a href="#">DA-CD-nzm4_4p</a>                                                                                             |
| PEP ECO-PASSPORT           | <a href="#">eaton-molded-case-switches-pep-eato-00221-v0101-en.pdf</a>                                                                                     |
| VÝKRESY                    | <a href="#">eaton-circuit-breaker-nzm-mccb-dimensions-023.eps</a>                                                                                          |

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| <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 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>POLLUTION DEGREE</b>                                         | 3                                                                                                    |
| <b>MOUNTING METHOD</b>                                          | Built-in device fixed built-in technique<br>Fixed                                                    |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78                       |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 165 W                                                                                                |
| <b>UTILIZATION CATEGORY</b>                                     | B (IEC/EN 60947-2)                                                                                   |
| <b>ISOLATION</b>                                                | 500 V AC (between auxiliary contacts and main contacts)<br>300 V AC (between the auxiliary contacts) |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 70 °C                                                                                                |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                      | -25 °C                                                                                               |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>                        | 70 °C                                                                                                |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>                        | 40 °C                                                                                                |
| <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>PROTECTION AGAINST DIRECT CONTACT</b>                       | Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110                                                                                                                                                                                                                                                                                                                                                  |
| <b>DEGREE OF PROTECTION</b>                                    | IP20 (basic degree of protection, in the operating controls area)<br>IP20                                                                                                                                                                                                                                                                                                                                        |
| <b>DIRECTION OF INCOMING SUPPLY</b>                            | As required                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>              | Screw connection                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>CURRENT RATING OF NEUTRAL CONDUCTOR</b>                     | 630 A<br>200% of phase conductor                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>LIFESPAN, MECHANICAL</b>                                    | 10000 operations                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OVERVOLTAGE CATEGORY</b>                                    | III                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>DEGREE OF PROTECTION (IP), FRONT SIDE</b>                   | IP40 (with insulating surround)<br>IP66 (with door coupling rotary handle)                                                                                                                                                                                                                                                                                                                                       |
| <b>DEGREE OF PROTECTION (TERMINATIONS)</b>                     | IP00 (terminations, phase isolator and strip terminal)<br>IP10 (tunnel terminal)                                                                                                                                                                                                                                                                                                                                 |
| <b>NUMBER OF POLES</b>                                         | Four-pole                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>TERMINAL CAPACITY (COPPER STRIP)</b>                        | Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched)<br>Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched)<br><br>Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal<br>10 segments of 50 mm x 1 mm (2x) at 1-hole module plate<br>Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal<br>10 segments of 80 mm x 1 mm (2x) at rear-side width extension |
| <b>LIFESPAN, ELECTRICAL</b>                                    | 2000 operations at 690 V AC-1<br>3000 operations at 415 V                                                                                                                                                                                                                                                                                                                                                        |

|                  |                                                                                                                                                      |
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|                  | AC-1<br>1000 operations at 690 V<br>AC-3<br>3000 operations at 400 V<br>AC-1<br>2000 operations at 400 V<br>AC-3<br>2000 operations at 415 V<br>AC-3 |
| <b>FUNCTIONS</b> | Systems, cable, selectivity and generator protection                                                                                                 |
| <b>TYPE</b>      | Circuit breaker                                                                                                                                      |

#### SPECIAL FEATURES

- Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity  $I_{cn}$ )
- R.m.s. value measurement and "thermal memory"
- Adjustable time delay setting to overcome current peaks  $t_r$  at  $6 \times I_r$  also infinity (without overload releases)
- Adjustable delay time  $t_{sd}$
- $i^2t$  constant function: switchable
- Set value in neutral conductor is synchronous with set value  $I_r$  of main pole.
- Rated current = rated uninterrupted current: 1000 A
- Reduced neutral conductor protection

|                         |                                          |
|-------------------------|------------------------------------------|
| <b>APPLICATION</b>      | Use in unearthed supply systems at 525 V |
| <b>SHOCK RESISTANCE</b> | 15 g (half-sinusoidal shock 11 ms)       |
| <b>POSITION OF</b>      | Front side                               |

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>CONNECTION FOR MAIN CURRENT CIRCUIT</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 1000 A                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RELEASE SYSTEM</b>                                                | Electronic release                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>SHORT-CIRCUIT TOTAL BREAKTIME</b>                                 | < 25 ms ( $\leq$ 415 V); < 35 ms (> 415 V)                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)</b>                | 12 kA                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)</b>                  | 12 kA                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX</b>                   | 10000 A                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN</b>                   | 1000 A                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX</b>               | 12000 A                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN</b>               | 2000 A                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>TERMINAL CAPACITY (CONTROL CABLE)</b>                             | 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (1x)<br>0.75 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (2x)                                                                                                                                                                                                                                                                                                                                                |
| <b>TERMINAL CAPACITY (COPPER BUSBAR)</b>                             | Max. 50 mm x 10 mm (2x) direct at switch rear-side connection<br>Min. 25 mm x 5 mm at rear-side 1-hole module plate<br>Min. 60 mm x 10 mm at rear-side width extension<br>Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate<br>50 mm x 10 mm (2x) at rear-side 2-hole module plate<br>Min. 25 mm x 5 mm direct at switch rear-side connection<br>Max. 80 mm x 10 mm (2x) at rear-side width extension<br>M10 at rear-side screw connection |
| <b>TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)</b>              | 95 mm <sup>2</sup> - 300 mm <sup>2</sup> (2x) at rear-side 1-hole module plate<br>120 mm <sup>2</sup> - 300 mm <sup>2</sup> (1x) at rear-side 1-hole module plate<br>35 mm <sup>2</sup> - 185 mm <sup>2</sup> (4x) at                                                                                                                                                                                                                             |

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|                                                              | rear-side 2-hole module plate<br>50 mm <sup>2</sup> - 240 mm <sup>2</sup> (4x) at 4-hole tunnel terminal<br>300 mm <sup>2</sup> (4x) at rear-side width extension<br>95 mm <sup>2</sup> - 185 mm <sup>2</sup> (2x) at rear-side 2-hole module plate<br>95 mm <sup>2</sup> - 240 mm <sup>2</sup> (6x) at rear-side width extension                                    |
| <b>TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)</b>    | 70 mm <sup>2</sup> - 185 mm <sup>2</sup> (2x) at rear-side 1-hole module plate<br>50 mm <sup>2</sup> (4x) at rear-side 2-hole module plate<br>185 mm <sup>2</sup> - 240 mm <sup>2</sup> (1x) at rear-side 1-hole module plate<br>240 mm <sup>2</sup> (2x) at rear-side width extension<br>70 mm <sup>2</sup> - 240 mm <sup>2</sup> (6x) at rear-side width extension |
| <b>TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)</b>   | 50 mm <sup>2</sup> - 185 mm <sup>2</sup> (4x) direct at switch rear-side connection<br>120 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) direct at switch rear-side connection                                                                                                                                                                                          |
| <b>TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)</b> | 50 mm <sup>2</sup> - 240 mm <sup>2</sup> (4x) at 4-hole tunnel terminal                                                                                                                                                                                                                                                                                              |
| <b>HANDLE TYPE</b>                                           | Rocker lever                                                                                                                                                                                                                                                                                                                                                         |
| <b>SHORT DELAY CURRENT SETTING (ISD) - MAX</b>               | 10000 A                                                                                                                                                                                                                                                                                                                                                              |
| <b>SHORT DELAY CURRENT SETTING (ISD) - MIN</b>               | 1000 A                                                                                                                                                                                                                                                                                                                                                               |
| <b>INSTANTANEOUS CURRENT SETTING (II) - MAX</b>              | 12000 A                                                                                                                                                                                                                                                                                                                                                              |
| <b>INSTANTANEOUS CURRENT SETTING (II) - MIN</b>              | 2000 A                                                                                                                                                                                                                                                                                                                                                               |
| <b>NUMBER OF OPERATIONS PER HOUR - MAX</b>                   | 60                                                                                                                                                                                                                                                                                                                                                                   |
| <b>OVERLOAD CURRENT SETTING (IR) - MAX</b>                   | 1000 A                                                                                                                                                                                                                                                                                                                                                               |
| <b>OVERLOAD CURRENT SETTING (IR) - MIN</b>                   | 500 A                                                                                                                                                                                                                                                                                                                                                                |
| <b>OVERLOAD CURRENT SETTING (IR)</b>                         | 315 A - 630 A                                                                                                                                                                                                                                                                                                                                                        |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS</b>             | 37 kA                                                                                                                                                                                                                                                                                                                                                                |

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| <b>(IEC/EN 60947) AT 230 V,<br/>50/60 HZ</b>                                                       |                                                        |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICS<br/>(IEC/EN 60947) AT<br/>400/415 V, 50/60 HZ</b> | 37 kA                                                  |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICS<br/>(IEC/EN 60947) AT 440 V,<br/>50/60 HZ</b>     | 26 kA                                                  |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICS<br/>(IEC/EN 60947) AT 525 V,<br/>50/60 HZ</b>     | 19 kA                                                  |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICS<br/>(IEC/EN 60947) AT 690 V,<br/>50/60 HZ</b>     | 15 kA                                                  |
| <b>RATED SHORT-CIRCUIT<br/>MAKING CAPACITY ICM<br/>AT 400/415 V, 50/60 HZ</b>                      | 105 kA                                                 |
| <b>RATED SHORT-CIRCUIT<br/>MAKING CAPACITY ICM<br/>AT 440 V, 50/60 HZ</b>                          | 74 kA                                                  |
| <b>RATED SHORT-CIRCUIT<br/>MAKING CAPACITY ICM<br/>AT 525 V, 50/60 HZ</b>                          | 53 kA                                                  |
| <b>RATED SHORT-CIRCUIT<br/>MAKING CAPACITY ICM<br/>AT 690 V, 50/60 HZ</b>                          | 40 kA                                                  |
| <b>STANDARD TERMINALS</b>                                                                          | Screw terminal                                         |
| <b>OPTIONAL TERMINALS</b>                                                                          | Connection on rear. Strip<br>terminal. Tunnel terminal |
| <b>RATED SHORT-CIRCUIT<br/>MAKING CAPACITY ICM<br/>AT 240 V, 50/60 HZ</b>                          | 105 kA                                                 |
| <b>RATED IMPULSE<br/>WITHSTAND VOLTAGE<br/>(UIMP) AT AUXILIARY<br/>CONTACTS</b>                    | 6000 V                                                 |
| <b>RATED IMPULSE<br/>WITHSTAND VOLTAGE<br/>(UIMP) AT MAIN<br/>CONTACTS</b>                         | 8000 V                                                 |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICU<br/>(IEC/EN 60947) AT 525 V,<br/>50/60 HZ</b>     | 25 kA                                                  |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICU<br/>(IEC/EN 60947) AT<br/>400/415 V, 50/60 HZ</b> | 50 kA                                                  |
| <b>RATED SHORT-CIRCUIT</b>                                                                         | 50 kA                                                  |

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**BREAKING CAPACITY ICU  
(IEC/EN 60947) AT 230 V,  
50/60 HZ**

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| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICU<br/>(IEC/EN 60947) AT 690 V,<br/>50/60 HZ</b> | 20 kA |
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| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICU<br/>(IEC/EN 60947) AT 440 V,<br/>50/60 HZ</b> | 35 kA |
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| <b>RATED INSULATION<br/>VOLTAGE (UI)</b> | 1000 V AC |
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**PROJECT NAME:**

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**PROJECT NUMBER:**

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**PREPARED BY:**

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**DATUM:**

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**Eaton Corporation Plc.**

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