

# Specifications



Photo is representative

## Eaton 104607

Eaton Moeller series NZM - Molded Case Circuit Breaker. Earth-fault release, 300mA, 4p, right

### General specifications

|                             |                                                        |
|-----------------------------|--------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series NZM - Molded case circuit breaker |
| <b>CATALOG NUMBER</b>       | 104607                                                 |
| <b>MODEL CODE</b>           | NZM1-4-XFI300R                                         |
| <b>EAN</b>                  | 4015081044177                                          |
| <b>PRODUCT LENGTH/DEPTH</b> | 220 mm                                                 |
| <b>PRODUCT HEIGHT</b>       | 80 mm                                                  |
| <b>PRODUCT WIDTH</b>        | 135 mm                                                 |
| <b>PRODUCT WEIGHT</b>       | 1.6 kg                                                 |
| <b>COMPLIANCES</b>          | IEC<br>RoHS conform                                    |
| <b>CERTIFICATIONS</b>       | IEC/EN 60947-2<br>IEC/EN 60947-2 annex B               |

## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>USED WITH</b>                                                                        | NZM1-4<br>Four-pole<br>N1-4                                                                                                      |
| <b>VOLTAGE RATING</b>                                                                   | 200 - 415 V AC, min. 80 V AC for detection of fault currents type A/AC (dependent on mains voltage)                              |
| <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</b>                                                                | Does not apply, since the                                                                                                        |

## Resources

|                                   |                                                                                                                                                                                                                                                 |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BROCHURES</b>                  | <a href="#">eaton-digital-nzm-brochure-br013003en-en-us.pdf</a><br><br><a href="#">eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf</a>                                                                                            |
| <b>CATALOGUES</b>                 | <a href="#">eaton-digital-nzm-catalog-ca013003en-en-us.pdf</a>                                                                                                                                                                                  |
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-accessories-declaration-of-conformity-eu250144en.pdf</a>                                                                                                                                                                      |
| <b>DRAWINGS</b>                   | <a href="#">eaton-circuit-breaker-release-nzm-earth-fault-release-3d-drawing.eps</a><br><br><a href="#">eaton-circuit-breaker-symbol-nzm-earth-fault-release-symbol.eps</a><br><br><a href="#">eaton-circuit-breaker-release-dimensions.eps</a> |
| <b>ECAD MODEL</b>                 | <a href="#">ETN.104607.edz</a>                                                                                                                                                                                                                  |
| <b>INSTALLATION INSTRUCTIONS</b>  | <a href="#">eaton-residual-current-module-mount-right-nzm1-il01219028z.pdf</a>                                                                                                                                                                  |
| <b>INSTALLATION VIDEOS</b>        | <a href="#">The new digital NZM Range</a><br><br><a href="#">Introduction of the new digital circuit breaker NZM</a>                                                                                                                            |
| <b>MCAD MODEL</b>                 | <a href="#">DA-CD-nzm1_4_xfi</a><br><br><a href="#">DA-CS-nzm1_4_xfi</a>                                                                                                                                                                        |
| <b>TECHNICAL DATA SHEETS</b>      | <a href="#">eaton-nzm-technical-information-sheet</a>                                                                                                                                                                                           |

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| <b>IMPACT</b>                                                   | 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 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>FRAME</b>                                                    | 45 mm<br>NZM1                                                      |
| <b>FREQUENCY RATING</b>                                         | 50 Hz / 60 Hz                                                      |
| <b>MOUNTING METHOD</b>                                          | On the right side                                                  |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 40 °C                                                              |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                      | -5 °C                                                              |
| <b>CURRENT RATING - MAX</b>                                     | 160 A                                                              |
| <b>POWER ON-DELAY TIME - MAX</b>                                | 300 ms                                                             |
| <b>POWER ON-DELAY TIME - MIN</b>                                | 300 ms                                                             |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>     | 415 V                                                              |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>     | 200 V                                                              |
| <b>RATED CONTROL SUPPLY</b>                                     | 415 V                                                              |

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VOLTAGE (US) AT AC, 60 HZ - MAX</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b> | 200 V                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>        | 0 V                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>CURRENT RATING - MIN</b>                                 | 15 A                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>DEGREE OF PROTECTION</b>                                 | IP20 (operating component area)                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MOUNTING POSITION</b>                                    | Vertical and 90° in all directions                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>LIFESPAN, MECHANICAL</b>                                 | 20000 operations                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>FAULT CURRENT DETECTION RANGE</b>                        | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>NUMBER OF POLES</b>                                      | Four-pole                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)</b>         | As NZM1 standard terminal with ferrules<br>As NZM1 standard terminal without ferrules                                                                                                                                                                                                                                                                                                                                  |
| <b>TYPE</b>                                                 | Accessory Earth-fault releases                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>SPECIAL FEATURES</b>                                     | Earth-fault release to IEC/EN 60947-2 Not UL/CSA approved Suitable for use in three-phase systems Pulse-current sensitive type A according to core-balance principle For 4 pole NZM1-4 circuit-breakers and N1-4 switch-disconnectors Supply voltage-dependent $U_e = 200 - 415 \text{ V } 50/60 \text{ Hz}$ Control knobs, sealable. Fitted on the right side up to $I_n = 160 \text{ A}$ at $I_{Cu} = 50 \text{ kA}$ |
| <b>APPLICATION</b>                                          | In three-phase systems                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>SHOCK RESISTANCE</b>                                     | 20 g (half-sinusoidal shock 20 ms)                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>        | 0 V                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RATED FAULT CURRENT - MAX</b>                            | 0.3 A                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RATED FAULT CURRENT - MIN</b>                            | 0.3 A                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RATED OPERATING VOLTAGE (UE) - MAX</b>                   | 415 V                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                         |                                                                |
|-------------------------|----------------------------------------------------------------|
| <b>SENSITIVITY TYPE</b> | Pulse-current sensitive as per core-balance principle (type A) |
|-------------------------|----------------------------------------------------------------|

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



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