

Earth-fault release, 300mA, 4p, right



Part no. **NZM1-4-XFI300R**
104607

| General specifications | | |
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| Product name | | Eaton Moeller series NZM - Molded Case Circuit Breaker |
| Part no. | | NZM1-4-XFI300R |
| EAN | | 4015081044177 |
| Product Length/Depth | | 220 millimetre |
| Product height | | 80 millimetre |
| Product width | | 135 millimetre |
| Product weight | | 1.6 kilogram |
| Compliances | | IEC RoHS conform |
| Certifications | | IEC/EN 60947-2 IEC/EN 60947-2 annex B |
| Product Tradename | | NZM |
| Product Type | | Molded Case Circuit Breaker |
| Product Sub Type | | None |
| Delivery program | | |
| Application | | In three-phase systems |
| Type | | Accessory Earth-fault releases |
| Number of poles | | Four-pole |
| Special features | | 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 Ue = 200 – 415 V 50/60 Hz Control knobs, sealable. Fitted on the right side up to In = 160 A at ICu = 50 kA |
| Frame | | 45 mm NZM1 |
| Used with | | NZM1-4 Four-pole N1-4 |
| Technical Data - Electrical | | |
| Sensitivity type | | Pulse-current sensitive as per core-balance principle (type A) |
| Voltage rating | | 200 - 415 V AC, min. 80 V AC for detection of fault currents type A/AC (dependent on mains voltage) |
| Rated operating voltage (Ue) - max | | 415 V |
| Rated control supply voltage (Us) at AC, 50 Hz - min | | 200 V |
| Rated control supply voltage (Us) at AC, 50 Hz - max | | 415 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | | 200 V |
| Rated control supply voltage (Us) at AC, 60 Hz - max | | 415 V |
| Rated control supply voltage (Us) at DC - min | | 0 V |
| Rated control supply voltage (Us) at DC - max | | 0 V |
| Current rating - min | | 15 A |
| Current rating - max | | 160 A |
| Rated fault current - min | | 0.3 A |
| Rated fault current - max | | 0.3 A |
| Fault current detection range | | 50/60 Hz |
| Frequency rating | | 50 Hz / 60 Hz |
| Power on-delay time - min | | 300 ms |
| Power on-delay time - max | | 300 ms |
| Technical Data - Mechanical | | |
| Mounting Method | | On the right side |
| Mounting position | | Vertical and 90° in all directions |
| Degree of protection | | IP20 (operating component area) |

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| Shock resistance | | 20 g (half-sinusoidal shock 20 ms) |
| Special features | | 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 $U_e = 200 - 415$ V 50/60 Hz Control knobs, sealable. Fitted on the right side up to $I_n = 160$ A at $I_{Cu} = 50$ kA |
| Lifespan, mechanical | | 20000 operations |
| Technical Data - Mechanical - Terminals | | |
| Terminal capacity (solid/flexible conductor) | | As NZM1 standard terminal with ferrules As NZM1 standard terminal without ferrules |
| Design verification as per IEC/EN 61439 - technical data | | |
| Ambient operating temperature - min | | -5 °C |
| Ambient operating temperature - max | | 40 °C |
| Design verification as per IEC/EN 61439 | | |
| 10.2.2 Corrosion resistance | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | Meets the product standard's requirements. |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | Meets the product standard's requirements. |
| 10.3 Degree of protection of assemblies | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | Does not apply, since the 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. |
| 10.10 Temperature rise | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 9.0

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| Low-voltage industrial components (EG000017) / Residual current release for power circuit breaker (EC001021) | | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Fault current switch for circuit breakers (ecl@ss13-27-37-04-11 [AKF009018]) | | | |
| Rated control supply voltage AC 50 Hz | V | | 200 - 415 |
| Rated control supply voltage AC 60 Hz | V | | 200 - 415 |
| Rated control supply voltage DC | V | | 0 - 0 |
| Rated fault current | A | | 0.3 - 0.3 |
| Max. power on-delay time | ms | | 300 |
| Delay adjustable | | | No |
| Max. rated operation voltage U_e | V | | 415 |