Circuit-breaker, 3p, 50A



Part no. NZMB2-AF50-NA 269149

| General specifications | |
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| Product name | Eaton Moeller series NZM molded case circuit breaker thermo-magnetic |
| Part no. | NZMB2-AF50-NA |
| EAN | 4015082691493 |
| Product Length/Depth | 149 millimetre |
| Product height | 195 millimetre |
| Product width | 105 millimetre |
| Product weight | 2.345 kilogram |
| Compliances | RoHS conform |
| Certifications | UL listed IEC/EN 60947 CSA (Class No. 1432-01) CE marking UL (Category Control Number DIVQ) CSA certified UL (File No. E31593) UL/CSA Specially designed for North America UL 489 IEC 60947-2 IEC CSA (File No. 22086) CSA-C22.2 No. 5-09 |
| Product Tradename | NZM |
| Product Type | Molded case circuit breaker |
| Product Sub Type | Thermo-magnetic |
| Delivery program | |
| Application | Branch circuits, feeder circuits Use in unearthed supply systems at 440 V |
| Туре | Circuit breaker |
| Circuit breaker frame type | NZM2 |
| Number of poles | Three-pole |
| Amperage Rating | 50 A |
| Release system | Thermomagnetic release |
| Features | Protection unit Motor drive optional |
| 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 Icn) Rated current = rated uninterrupted current: 50 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Fixed overload releases Ir |
| Technical Data - Electrical | |
| Voltage rating | 440 V - 440 V |
| Rated operating voltage Ue (UL) - max | 600Y/347 V, 480 V |
| Rated insulation voltage (Ui) | 690 V AC |
| Rated impulse withstand voltage (Uimp) at auxiliary contacts | 6000 V |
| Rated impulse withstand voltage (Uimp) at main contacts | 8000 V |
| Rated operational current | 300 A (380/400 V AC-1, making and breaking capacity) 300 A (415 V AC-1, making and breaking capacity) |
| Instantaneous current setting (Ii) - min | 300 A |
| Instantaneous current setting (Ii) - max | 500 A |
| Overload current setting (Ir) - min | 50 A |
| Overload current setting (Ir) - max | 50 A |
| Short delay current setting (Isd) - min | 0 A |
| Short delay current setting (Isd) - max | 0 A |

| Short-circuit release non-delayed setting - min | 300 A |
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| Short-circuit release non-delayed setting - max | 500 A |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz | 30 kA |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz | 25 kA |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz | 18.5 kA |
| Rated short-circuit making capacity Icm at 240 V, 50/60 Hz | 63 kA |
| Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz | 53 kA |
| Rated short-circuit making capacity Icm at 440 V, 50/60 Hz | 53 kA |
| Short-circuit total breaktime | < 10 ms |
| Low-voltage HBC fuse - max | 355 A gG/gL |
| Electrical connection type of main circuit | Screw connection |
| Isolation | 300 V AC (between the auxiliary contacts) |
| | 500 V AC (between auxiliary contacts and main contacts) |
| Number of operations per hour - max | 120 |
| Handle type | Rocker lever |
| Utilization category | A (IEC/EN 60947-2) |
| Overvoltage category | III |
| Pollution degree | 3 |
| Lifespan, electrical | 7500 operations at 400 V AC-1 6500 operations at 415 V AC-3 |
| Direction of incoming supply | As required |
| Technical Data - Mechanical | |
| Mounting Method | Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional Fixed |
| Degree of protection | IP20 (basic degree of protection, in the operating controls area) IP20 |
| Degree of protection (IP), front side | IP40 (with insulating surround) IP66 (with door coupling rotary handle) |
| Degree of protection (terminations) | IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal) |
| Protection against direct contact | Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110 |
| Shock resistance | 20 g (half-sinusoidal shock 20 ms) |
| Number of auxiliary contacts (change-over contacts) | 0 |
| Number of auxiliary contacts (normally closed contacts) | 0 |
| Number of auxiliary contacts (normally open contacts) | 0 |
| Position of connection for main current circuit | Front side |
| Climatic proofing | Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| 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 Icn) Rated current = rated uninterrupted current: 50 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Fixed overload releases Ir |
| Lifespan, mechanical | 20000 operations |
| Technical Data - Mechanical - Terminals | |
| Standard terminals | Screw terminal |
| Terminal capacity (control cable) | 16 mm ² - 18 mm ² (2x) 14 mm ² - 18 mm ² (1x) |
| Terminal capacity (aluminum solid conductor/cable) | 16 mm² (1x) at tunnel terminal |
| Terminal capacity (copper busbar) | M8 at rear-side screw connection Min. 16 mm x 5 mm direct at switch rear-side connection Max. 20 mm x 5 mm direct at switch rear-side connection |
| Terminal capacity (copper solid conductor/cable) | 6 mm ² - 12 mm ² (1x) at box terminal 16 mm ² (1x) at tunnel terminal 6 mm ² - 11 mm ² (1x) direct at switch rear-side connection |
| Terminal capacity (copper stranded conductor/cable) | 4 mm ² - 350 mm ² (1x) at box terminal 4 mm ² - 350 mm ² (1x) at tunnel terminal 4 mm ² - 3/0 mm ² (1x) direct at switch rear-side connection |
| Terminal capacity (copper strip) | Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) |

| observed. | Design verification as per IEC/EN 61439 - technical data | |
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| 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Functions 10.14 Steppens builder's responsibility. 10.15 Is the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.16 Electromagnetic compatibility 10.17 Electromagnetic compatibility 10.18 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.19 Electromagnetic compatibility 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 11.13 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 12.14 Electromagnetic compatibility 13.15 Electromagnetic compatibility 14.16 Electromagnetic compatibility 15.17 Electromagnetic compatibility 16.18 Electromagnetic compatibility 17.19 Electromagnetic compatibility 18.10 Electromagnetic compatibility 19.10 Electromagnetic compatibility 19.11 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Electromagnetic compatibility 10.15 Electromagnetic compatibility 10.16 Electromagnetic compatibility 10.17 Electromagnetic compatibility 10.18 Electromagnetic compatibility 10.19 Electromagnetic compatibility 10.10 Electromagnetic compatibility 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Electromagnetic compatibility 10.14 Electromagnetic compatibility 10.15 E | 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
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| Additional information Functions Leaflet (IL) is observed. Current limiting circuit breaker | 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| Functions Current limiting circuit breaker | 10.13 Mechanical function | |
| | Additional information | |
| | Functions | |

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss13-27-37-04-09 [AJZ716018])

| protection (consists 27 or or or protection) | | |
|---|----|--|
| Rated permanent current lu | Α | 50 |
| Rated voltage | V | 440 - 440 |
| Rated short-circuit breaking capacity Icu at 400 V, 50 Hz | kA | 25 |
| Overload release current setting | Α | 50 - 50 |
| Adjustment range short-term delayed short-circuit release | А | 0 - 0 |
| Adjustment range undelayed short-circuit release | Α | 300 - 500 |
| Power loss | W | 17 |
| Device construction | | Built-in device fixed built-in technique |
| Integrated earth fault protection | | No |
| Type of electrical connection of main circuit | | Screw connection |
| Suitable for DIN rail (top hat rail) mounting | | No |
| DIN rail (top hat rail) mounting optional | | Yes |
| Number of auxiliary contacts as normally closed contact | | 0 |
| Number of auxiliary contacts as normally open contact | | 0 |
| Number of auxiliary contacts as change-over contact | | 0 |
| With switched-off indicator | | No |
| | | |

| With integrated under voltage release | No |
|---|--------------|
| Number of poles | 3 |
| Position of connection for main current circuit | Front side |
| Type of control element | Rocker lever |
| Complete device with protection unit | Yes |
| Motor drive integrated | No |
| Motor drive optional | Yes |
| Degree of protection (IP) | IP20 |