Circuit-breaker, 3p, 200A



Part no. NZMB2-A200-NA 269216

| General specifications | |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name | Eaton Moeller series NZM - Molded Case Circuit Breaker |
| Part no. | NZMB2-A200-NA |
| EAN | 4015082692162 |
| Product Length/Depth | 149 millimetre |
| Product height | 195 millimetre |
| Product width | 105 millimetre |
| Product weight | 2.405 kilogram |
| Compliances | RoHS conform |
| Certifications | UL/CSA CSA certified UL listed CSA (Class No. 1432-01) UL 489 IEC 60947-2 UL (File No. E31593) CSA-C22.2 No. 5-09 UL (Category Control Number DIVQ) IEC Specially designed for North America CE marking IEC/EN 60947 CSA (File No. 22086) |
| Product Tradename | NZM |
| Product Type | Molded Case Circuit Breaker |
| Product Sub Type | None |
| 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 | 200 A |
| Release system | Thermomagnetic release |
| Features | Motor drive optional Protection unit |
| 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: 200 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Adjustable 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 (415 V AC-1, making and breaking capacity) 300 A (380/400 V AC-1, making and breaking capacity) |
| Instantaneous current setting (li) - min | 1200 A |
| Instantaneous current setting (li) - max | 2000 A |
| Overload current setting (Ir) - min | 160 A |
| Overload current setting (Ir) - max | 200 A |
| Short delay current setting (Isd) - min | 0 A |
| Short delay current setting (Isd) - max | 0 A |

| Short-circuit release non-delayed setting - min | 1200 A |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Short-circuit release non-delayed setting - max | 2000 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 | |
| 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 Fixed DIN rail (top hat rail) mounting optional |
| 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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| 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: 200 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Adjustable overload releases Ir |
| Lifespan, mechanical | 20000 operations |
| Technical Data - Mechanical - Terminals | |
| Standard terminals | Screw terminal |
| Terminal capacity (control cable) | 14 mm ² - 18 mm ² (1x) 16 mm ² - 18 mm ² (2x) |
| Terminal capacity (aluminum solid conductor/cable) | 16 mm² (1x) at tunnel terminal |
| Terminal capacity (copper busbar) | Max. 20 mm x 5 mm direct at switch rear-side connection Min. 16 mm x 5 mm direct at switch rear-side connection M8 at rear-side screw connection |
| Terminal capacity (copper solid conductor/cable) | 6 mm ² - 11 mm ² (1x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal 6 mm ² - 12 mm ² (1x) at box terminal |
| Terminal capacity (copper stranded conductor/cable) | 4 mm ² - 3/0 mm ² (1x) direct at switch rear-side connection 4 mm ² - 350 mm ² (1x) at box terminal 4 mm ² - 350 mm ² (1x) at tunnel terminal |
| 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) |

| 200 A |
|----------------------------------------------------------------------------------------------------------------------------------|
| 48 W |
| -25 °C |
| 70 °C |
| -40 °C |
| 70 °C |
| |
| Meets the product standard's requirements. |
| Does not apply, since the entire switchgear needs to be evaluated. |
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| Does not apply, since the entire switchgear needs to be evaluated. |
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| Is the panel builder's responsibility. |
| The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
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| The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| |
| System and cable protection Current limiting circuit breaker |
| |

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 (eci@ss13-27-37-04-09 [AJZ/16018]) | | |
|-----------------------------------------------------------|----|------------------------------------------|
| Rated permanent current lu | А | 200 |
| Rated voltage | V | 440 - 440 |
| Rated short-circuit breaking capacity Icu at 400 V, 50 Hz | kA | 25 |
| Overload release current setting | Α | 160 - 200 |
| Adjustment range short-term delayed short-circuit release | А | 0 - 0 |
| Adjustment range undelayed short-circuit release | А | 1200 - 2000 |
| Power loss | W | 48 |
| 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 |