

Specifications



Photo is representative

Eaton 113347

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 200A, plug-in module, H2-S200-SVE

General specifications

| | |
|-----------------------------|---|
| PRODUCT NAME | Eaton Moeller series NZM molded case circuit breaker magnetic |
| CATALOG NUMBER | 113347 |
| MODEL CODE | NZMH2-S200-SVE |
| EAN | 4015081128822 |
| PRODUCT LENGTH/DEPTH | 180 mm |
| PRODUCT HEIGHT | 245 mm |
| PRODUCT WIDTH | 105 mm |
| PRODUCT WEIGHT | 2.785 kg |
| COMPLIANCES | RoHS conform |
| CERTIFICATIONS | IEC IEC/EN 60947 |
| GLOBAL CATALOG | 113347 |

Product specifications

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| AMPERAGE RATING | 200 A |
| VOLTAGE RATING | 690 V - 690 V |
| CIRCUIT BREAKER FRAME TYPE | NZM2 |
| ACCESSORIES REQUIRED | NZM2-XSVS |
| 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. |
| 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. |

Resources

BROCHURES

[eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf](#)

CATALOGS

[eaton-digital-nzm-catalog-ca013003en-en-us.pdf](#)

CHARACTERISTIC CURVE

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-037.eps](#)

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-052.eps](#)

[eaton-circuit-breaker-let-through-current-nzm-mccb-characteristic-curve-005.eps](#)

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-053.eps](#)

DECLARATIONS OF CONFORMITY

[eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250290en.pdf](#)

DRAWINGS

[eaton-circuit-breaker-switch-nzm-mccb-dimensions-017.eps](#)

[eaton-circuit-breaker-adapter-nzm-mccb-dimensions-002.eps](#)

[eaton-circuit-breaker-nzm-mccb-dimensions-019.eps](#)

[eaton-circuit-breaker-switch-nzm-mccb-3d-drawing.eps](#)

INSTALLATION INSTRUCTIONS

[eaton-circuit-breaker-plug-in-adapter-nzm2-il01219023z.pdf](#)

INSTALLATION VIDEOS

[The new digital NZM Range](#)

[Introduction of the new digital circuit breaker NZM](#)

MCAD MODEL

[DA-CD-nzm2_xsve](#)

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| 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. |
| POLLUTION DEGREE | 3 |
| MOUNTING METHOD | Built-in device plug-in technique Plug-in unit |
| CLIMATIC PROOFING | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT | 48 W |
| UTILIZATION CATEGORY | A (IEC/EN 60947-2) |
| ISOLATION | 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) |
| AMBIENT OPERATING TEMPERATURE - MAX | 70 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| AMBIENT STORAGE TEMPERATURE - MAX | 70 °C |

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| DA-CS-nzm2_xsve |
| eaton-molded-case-switches-pep-eato-00218-v0101-en.pdf |
| eaton-nzm-technical-information-sheet |

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|---|---|
| AMBIENT STORAGE TEMPERATURE - MIN | 40 °C |
| PROTECTION AGAINST DIRECT CONTACT | Finger and back-of-hand proof to VDE 0106 part 100 |
| RATED INSULATION VOLTAGE (UI) | 1000 V |
| RATED OPERATING POWER AT AC-3, 230 V | 55 kW |
| RATED OPERATING POWER AT AC-3, 400 V | 110 kW |
| SWITCH OFF TECHNIQUE | Magnetic |
| DEGREE OF PROTECTION | IP20 IP20 (basic degree of protection, in the operating controls area) |
| DIRECTION OF INCOMING SUPPLY | As required |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT | Screw connection |
| LIFESPAN, MECHANICAL | 20000 operations |
| OVERVOLTAGE CATEGORY | III |
| RATED OPERATIONAL CURRENT | 196 A (400 V AC-3) |
| 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) |
| NUMBER OF POLES | Three-pole |
| TERMINAL CAPACITY (COPPER STRIP) | Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) 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) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) |
| LIFESPAN, ELECTRICAL | 10000 operations at 415 V |

AC-1
10000 operations at 400 V
AC-1
6500 operations at 400 V
AC-3
6500 operations at 415 V
AC-3
5000 operations at 690 V
AC-3
7500 operations at 690 V
AC-1

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| FUNCTIONS | Short-circuit protection |
| TYPE | Circuit breaker |
| SPECIAL FEATURES | <ul style="list-style-type: none"> • 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}) • Motor protection in conjunction with overload relay • With short-circuit release • Without overload release I_r • IEC/EN 60947-4-1, IEC/EN 60947-2 • The circuit-breaker fulfills all requirements for AC-3 switching category. • Rated current = rated uninterrupted current: 200 A |
| APPLICATION | Use in unearthing supply systems at 690 V |
| SHOCK RESISTANCE | 20 g (half-sinusoidal shock 20 ms) |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 200 A |
| RATED SHORT-TIME WITHSTAND CURRENT (T_W) | 1.9 kA |

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|--|--|
| = 0.3 S) | |
| RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) | 1.9 kA |
| SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX | 2500 A |
| SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN | 1600 A |
| HANDLE TYPE | Rocker lever |
| INSTANTANEOUS CURRENT SETTING (II) - MAX | 44328 A |
| INSTANTANEOUS CURRENT SETTING (II) - MIN | 8 A |
| NUMBER OF OPERATIONS PER HOUR - MAX | 120 |
| OVERLOAD CURRENT SETTING (IR) - MAX | 0 A |
| OVERLOAD CURRENT SETTING (IR) - MIN | 0 A |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 Hz | 150 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 Hz | 130 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 Hz | 130 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 Hz | 37.5 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 Hz | 5 kA |
| STANDARD TERMINALS | Screw terminal |
| OPTIONAL TERMINALS | Box terminal. Connection on rear. Tunnel terminal |
| RELEASE SYSTEM | Thermomagnetic release |
| SHORT-CIRCUIT TOTAL | < 10 ms |

| BREAKTIME | |
|--|---|
| TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE) | 16 mm ² (1x) at tunnel terminal |
| TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE) | 25 mm ² - 185 mm ² (1x) at tunnel terminal |
| TERMINAL CAPACITY (CONTROL CABLE) | 0.75 mm ² - 1.5 mm ² (2x) 0.75 mm ² - 2.5 mm ² (1x) |
| TERMINAL CAPACITY (COPPER BUSBAR) | Min. 16 mm x 5 mm direct at switch rear-side connection Max. 24 mm x 8 mm direct at switch rear-side connection M8 at rear-side screw connection |
| TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE) | 6 mm ² - 16 mm ² (2x) at box terminal 6 mm ² - 16 mm ² (2x) direct at switch rear-side connection 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 10 mm ² - 16 mm ² (1x) at box terminal 16 mm ² (1x) at tunnel terminal |
| TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE) | 25 mm ² - 70 mm ² (2x) direct at switch rear-side connection 25 mm ² - 185 mm ² (1x) at 1-hole tunnel terminal 25 mm ² - 185 mm ² (1x) at box terminal 25 mm ² - 185 mm ² (1x) direct at switch rear-side connection 25 mm ² - 70 mm ² (2x) at box terminal |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 Hz | 130 kA |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 Hz | 330 kA |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 Hz | 286 kA |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM | 105 kA |

AT 525 V, 50/60 HZ**RATED SHORT-CIRCUIT****MAKING CAPACITY ICM**

40 kA

AT 690 V, 50/60 HZ**RATED SHORT-CIRCUIT****MAKING CAPACITY ICM**

330 kA

AT 240 V, 50/60 HZ**RATED IMPULSE****WITHSTAND VOLTAGE****(UIMP) AT AUXILIARY****CONTACTS**

6000 V

RATED IMPULSE**WITHSTAND VOLTAGE****(UIMP) AT MAIN****CONTACTS**

8000 V

POWER LOSS

38 W

PROJECT NAME:**PROJECT NUMBER:****PREPARED BY:****DATE:****Eaton Corporation plc**

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