Specifications



Photo is representative





Eaton 191684

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM2 PXR20 circuit breaker, 100A, 4p, plug-in technology, H, 2

| General specification | S |
|-------------------------|---|
| PRODUCT NAME | Eaton Moeller series NZM molded case circuit breaker electronic |
| CATALOG NUMBER | 191684 |
| MODEL CODE | NZMH2-4-VX100-SVE |
| EAN | 4015081921966 |
| PRODUCT LENGTH/DEPTH | 190 mm |
| PRODUCT HEIGHT | 160 mm |
| PRODUCT WIDTH | 145 mm |
| PRODUCT WEIGHT | 2.9 kg |
| COMPLIANCES | RoHS conform |
| CERTIFICATIONS | IEC IEC/EN 60947 |
| GLOBAL CATALOG | 191684 |
| | |



| Product specifications | 5 |
|---|--|
| AMPERAGE RATING | 100 A |
| VOLTAGE RATING | 690 V - 690 V |
| CIRCUIT BREAKER FRAME TYPE | NZM2 |
| FEATURES | Motor drive optional Protection unit |
| ACCESSORIES REQUIRED | NZM2-4-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 | Meets the product standard's requirements. |
| BY INTERNAL ELECT. EFFECTS | |
| | Meets the product standard's requirements. |
| EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) | |

| Resources | |
|------------------------------|--|
| BROCHURES | eaton-digital-nzm- brochure-br013003en-en- us.pdf |
| | 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-nzm- mccb-characteristic-curve- 010.eps |
| | eaton-circuit-breaker-nzm- mccb-characteristic-curve- 014.eps |
| DECLARATIONS OF CONFORMITY | eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250291en.pdf |
| DRAWINGS | eaton-circuit-breaker-nzm- mccb-dimensions-035.eps |
| | eaton-circuit-breaker- switch-nzm-mccb- dimensions-017.eps |
| | eaton-circuit-breaker- adapter-nzm-mccb- dimensions-002.eps |
| INSTALLATION INSTRUCTIONS | eaton-circuit-breakers- nzmb-nzmn-basic-unit- bg2-instruction-leaflet- il012099zu.pdf |
| | eaton-circuit-breaker-plug- in-adapter-nzm2- il01219023z.pdf |
| | The new digital NZM Range |
| INSTALLATION VIDEOS | Introduction of the new digital circuit breaker NZM |
| MCAD MODEL | DA-CD-nzm2 xsve DA-CS-nzm2 xsve |
| PEP ECO-PASSPORT | eaton-molded-case- switches-pep-eato-00185- v0101-en.pdf |
| TECHNICAL DATA SHEETS | eaton-nzm-technical- information-sheet |
| | |

| IMPACT entire switchgear needs to be evaluated. 10.2.7 INSCRIPTIONS Meets the product standard's requirements. 10.3 DEGREE OF PROTECTION OF ASSEMBLIES 10.4 CLEARANCES AND CREEPAGE DISTANCES 10.5 PROTECTION AGAINST ELECTRIC SHOCK 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH 10.9.3 IMPULSE WITHSTAND VOLTAGE 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EVERNAL CONDUCTORS Built-in device plug-in technique Plug-in unit Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT UTILIZATION CATEGORY AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN POCL AND CONNECTIONS Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. A (IEC/EN 60947-2) SOU VA (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts) AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE - MIN | | |
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| MOUNTING METHOD technique Plug-in unit Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT UTILIZATION CATEGORY A (IEC/EN 60947-2) 500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts) AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING -25 °C | POLLUTION DEGREE | 3 |
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| ISOLATION ISOLATION ISOLATION ISOLATION ISOLATION ISOLATION Main contacts) 300 V AC (between the auxiliary contacts) AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING -25 °C | DISSIPATION, CURRENT- | 8.25 W |
| auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts) AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING -25 °C | UTILIZATION CATEGORY | A (IEC/EN 60947-2) |
| TEMPERATURE - MAX AMBIENT OPERATING -25 °C | ISOLATION | auxiliary contacts and main contacts) 300 V AC (between the |
| -25 °C | | 70 °C |
| | | -25 °C |

| AMBIENT STORAGE TEMPERATURE - MAX | 70 °C |
|---|---|
| AMBIENT STORAGE TEMPERATURE - MIN | 40 °C |
| NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) | 0 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) | 0 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) | 0 |
| PROTECTION AGAINST DIRECT CONTACT | Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110 |
| 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 | Other |
| CURRENT RATING OF NEUTRAL CONDUCTOR | 200% of phase conductor |
| LIFESPAN, MECHANICAL | 20000 operations |
| OVERVOLTAGE CATEGORY | III |
| 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 | Four-pole |
| TERMINAL CAPACITY (COPPER STRIP) | Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segements 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 |
|----------------------|--|
| LIFESPAN, ELECTRICAL | 7500 operations at 690 V AC-1 10000 operations at 400 V AC-1 10000 operations at 415 V AC-1 |
| FUNCTIONS | Systems, cable, selectivity and generator protection |
| ТҮРЕ | Circuit breaker |
| SPECIAL FEATURES | LSI overload protection and delayed and non-delayed short-circuit protective device R.m.s. value measurement and "thermal memory" USB interface for configuration and test function with Power Xpert Protection Manager software Optionally communication-capable with interface module and internal Modbus RTU module or CAM 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 lcn) Rated current = rated uninterrupted current: 100 A |
| APPLICATION | Use in unearthed supply systems at 690 V |
| SHOCK RESISTANCE | 20 g (half-sinusoidal shock |
| | |

| | 20 ms) |
|---|--|
| POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT | Front side |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 100 A |
| RELEASE SYSTEM | Electronic release |
| SHORT-CIRCUIT TOTAL BREAKTIME | < 10 ms |
| RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S) | 1.9 kA |
| RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) | 1.9 kA |
| SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX | 1000 A |
| SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN | 80 A |
| SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX | 1800 A |
| SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN | 200 A |
| TERMINAL CAPACITY (CONTROL CABLE) | 0.75 mm ² - 2.5 mm ² (1x) 0.75 mm ² - 1.5 mm ² (2x) |
| 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 mm² - 16 mm² (2x) at box terminal 10 mm² - 16 mm² (1x) at box terminal 16 mm² (1x) at tunnel terminal 6 mm² - 16 mm² (2x) direct at switch rear-side connection 10 mm² - 16 mm² (1x) direct at switch rear-side connection |
| TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE) | 16 mm² (1x) at tunnel terminal |

| TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE) | 25 mm² - 185 mm² (1x) direct at switch rear-side connection 25 mm² - 70 mm² (2x) at box terminal 25 mm² - 185 mm² (1x) at box terminal 25 mm² - 70 mm² (2x) direct at switch rear-side connection 25 mm² - 185 mm² (1x) at 1-hole tunnel terminal |
|--|--|
| TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE) | 25 mm ² - 185 mm ² (1x) at tunnel terminal |
| HANDLE TYPE | Rocker lever |
| SHORT DELAY CURRENT SETTING (ISD) - MAX | 10 A |
| SHORT DELAY CURRENT SETTING (ISD) - MIN | 2 A |
| INSTANTANEOUS CURRENT SETTING (II) - MAX | 18 A |
| INSTANTANEOUS CURRENT SETTING (II) - MIN | 2 A |
| NUMBER OF OPERATIONS PER HOUR - MAX | 120 |
| OVERLOAD CURRENT SETTING (IR) - MAX | 100 A |
| OVERLOAD CURRENT SETTING (IR) - MIN | 40 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 | 150 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 | 5 kA |
| | |

| (IEC/EN 60947) AT 690 V, 50/60 HZ | |
|---|--------------------------|
| 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 AT 525 V, 50/60 HZ | 110 kA |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ | 40 kA |
| STANDARD TERMINALS | Screw terminal |
| ODTIONIAL TERMINIALS | Box terminal. Connection |
| OPTIONAL TERMINALS | on rear. Tunnel terminal |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ | on rear. Tunnel terminal |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM | |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY | 330 kA |

| PROJECT NAME: | |
|-----------------|--|
| PROJECT NUMBER: | |
| PREPARED BY: | |
| DATE: | |



VOLTAGE (UI)

Eaton Corporation plc

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