

Specifications



Photo is representative

Eaton 168482

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3-polep, 630 A, plug-in module

General specifications

PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	168482
MODEL CODE	NZMN3-VE630-SVE
EAN	4015081650231
PRODUCT LENGTH/DEPTH	335 mm
PRODUCT HEIGHT	215.2 mm
PRODUCT WIDTH	140 mm
PRODUCT WEIGHT	7.72 kg
COMPLIANCES	RoHS conform



Powering Business Worldwide

Delivery programme

AMPERAGE RATING	630 A
FEATURES	Motor drive optional Protection unit
NUMBER OF POLES	Three-pole

Design verification to IEC/EN 61439

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.
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	Does not apply, since the

Design verification to IEC/EN 61439 - technical data

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT 119.07 W

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) 630 A

AGAINST ELECTRIC SHOCK	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.

Technical data - electrical

AMPERAGE RATING	630 A
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
HANDLE TYPE	Rocker lever
INSTANTANEOUS CURRENT SETTING (II) - MAX	6930 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	1260 A
OVERLOAD CURRENT SETTING (IR) - MAX	630 A
OVERLOAD CURRENT SETTING (IR) - MIN	315 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	50 kA
SHORT DELAY CURRENT SETTING (ISD) - MAX	6300 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	630 A
VOLTAGE RATING	690 V - 690 V

Technical data - mechanical

DEGREE OF PROTECTION IP20

MOUNTING METHOD Built-in device plug-in technique

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

Resources

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

[eaton-digital-nzm-brochure-br013003en-en-us.pdf](#)

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

DECLARATIONS OF CONFORMITY [eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250293en.pdf](#)

ECAD MODEL [DA-CE-ETN.NZMN3-VE630-SVE](#)

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

INSTALLATION VIDEOS [Introduction of the new digital circuit breaker NZM](#)
[The new digital NZM Range](#)

MCAD MODEL [eaton-motor-protector-mcad-drawings-nzmh3-me220-sve.dwg](#)
[nzmh3_me220_sve.stp](#)

PEP ECO-PASSPORT [eaton-molded-case-switches-pep-eato-00219-v0101-en.pdf](#)

TECHNICAL DATA SHEETS [eaton-nzm-technical-information-sheet](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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