

Specifications



Photo is representative

Eaton 168915

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 500A, withdrawable unit, H3-A500-SVE

General specifications

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| PRODUCT NAME | Eaton Moeller series NZM molded case circuit breaker thermo-magnetic |
| CATALOG NUMBER | 168915 |
| MODEL CODE | NZMH3-A500-SVE |
| EAN | 4015081654093 |
| PRODUCT LENGTH/DEPTH | 335 mm |
| PRODUCT HEIGHT | 215.2 mm |
| PRODUCT WIDTH | 140 mm |
| PRODUCT WEIGHT | 6.38 kg |
| COMPLIANCES | RoHS conform |
| GLOBAL CATALOG | 168915 |

Product specifications

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| AMPERAGE RATING | 500 A |
| VOLTAGE RATING | 690 V - 690 V |
| FEATURES | Protection unit Motor drive optional |
| 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 | Does not apply, since the entire switchgear needs to |

Resources

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|-----------------------------------|--|
| BROCHURES | eaton-digital-nzm-brochure-br013003en-en-us.pdf |
| CATALOGS | eaton-digital-nzm-catalog-ca013003en-en-us.pdf |
| DECLARATIONS OF CONFORMITY | eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250292en.pdf |
| ECAD MODEL | DA-CE-ETN.NZMH3-A500-SVE |
| INSTALLATION INSTRUCTIONS | eaton-circuit-breaker-plug-in-adapter-nzm2-il01219023z.pdf |
| INSTALLATION VIDEOS | Introduction of the new digital circuit breaker NZM Range |
| MCAD MODEL | nzmh3_me220_sve.dwg nzmh3_me220_sve.stp |
| PEP ECO-PASSPORT | eaton-molded-case-switches-pep-eato-00231-v0101-en.pdf |
| TECHNICAL DATA SHEETS | eaton-nzm-technical-information-sheet |

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| ASSEMBLIES | 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. |
| MOUNTING METHOD | Built-in device plug-in technique |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT | 93 W |
| AMBIENT OPERATING TEMPERATURE - MAX | 70 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -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 |
| DEGREE OF PROTECTION | IP20 |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT | Screw connection |
| NUMBER OF POLES | Three-pole |
| SPECIAL FEATURES | Rated current = rated uninterrupted current: 500 |

A

**POSITION OF
CONNECTION FOR MAIN
CURRENT CIRCUIT**

**RATED OPERATIONAL
CURRENT FOR SPECIFIED
HEAT DISSIPATION (IN)**

**SHORT-CIRCUIT RELEASE
NON-DELAYED SETTING -
MAX**

**SHORT-CIRCUIT RELEASE
NON-DELAYED SETTING -
MIN**

HANDLE TYPE Rocker lever

**SHORT DELAY CURRENT
SETTING (ISD) - MAX**

**SHORT DELAY CURRENT
SETTING (ISD) - MIN**

**INSTANTANEOUS
CURRENT SETTING (II) -
MAX**

**INSTANTANEOUS
CURRENT SETTING (II) -
MIN**

**OVERLOAD CURRENT
SETTING (IR) - MAX**

**OVERLOAD CURRENT
SETTING (IR) - MIN**

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
(IEC/EN 60947) AT
400/415 V, 50/60 HZ**

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
(IEC/EN 60947) AT 500 V
DC**

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
(IEC/EN 60947) AT 750 V
DC**

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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