## Specifications



Photo is representative

## Eaton 168512

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 500A, withdrawable unit, NZMN3-4-A500-SVE

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
CATALOG NUMBER	168512
EAN	4015081649907
PRODUCT LENGTH/DEPTH	335 mm
PRODUCT HEIGHT	215.2 mm
PRODUCT WIDTH	185 mm
PRODUCT WEIGHT	8.81 kg
COMPLIANCES	RoHS conform
MODEL CODE	NZMN3-4-A500-SVE



Product specification	S		Resou
AMPERAGE RATING	500 A		
VOLTAGE RATING	690 V - 690 V		
FEATURES	Protection unit Motor drive optional		BROCHU
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.		CATALO:
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.		CONFOR
10.12 ELECTROMAGNETIC COMPATIBILITY	ls the panel builder's responsibility. The specifications for the switchgear must be		INSTALL/ INSTRUC
10.13 MECHANICAL FUNCTION	observed.  The device meets the requirements, provided the information in the		INSTALL
10.2.2 CORROSION	instruction leaflet (IL) is observed.  Meets the product		MCAD M
RESISTANCE	standard's requirements.		PEP ECO
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.		TECHNIC
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.	1	
10.3 DEGREE OF PROTECTION OF	Does not apply, since the entire switchgear needs to		

Resources	
BROCHURES	eaton-digital-nzm- brochure-br013003en-en- us.pdf
	eaton-feerum-the-whole- grain-solution-success- story-en-us.pdf
CATALOGUES	<u>eaton-digital-nzm-catalog-</u> <u>ca013003en-en-us.pdf</u>
DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250292en.pdf
ECAD MODEL	DA-CE-ETN.NZMN3-4- A500-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	nzmn3 4 a320 sve.dwg
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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
MOUNTING METHOD	Built-in device plug-in technique
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	130.5 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
CURRENT RATING OF NEUTRAL CONDUCTOR	200% of phase conductor
NUMBER OF POLES	Four-pole

SPECIAL FEATURES	Rated current = rated uninterrupted current: 500 A
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	5000 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	3000 A
HANDLE TYPE	Rocker lever
SHORT DELAY CURRENT SETTING (ISD) - MAX	0 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	0 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	10 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	6 A
OVERLOAD CURRENT SETTING (IR) - MAX	500 A
OVERLOAD CURRENT SETTING (IR) - MIN	400 A
OVERLOAD CURRENT SETTING (IR)	400 A - 500 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 500 V DC	30 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 750 V DC	30 kA

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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