Specifications



Photo is representative





Eaton 191614

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM3 PXR10 circuit breaker, 400A, 4p, variable, withdrawable unit, N, 3

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	191614
EAN	4015081921263
PRODUCT LENGTH/DEPTH	346 mm
PRODUCT HEIGHT	260 mm
PRODUCT WIDTH	230 mm
PRODUCT WEIGHT	14.513 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947
MODEL CODE	NZMN3-4-AX400/VAR-AVE



Product specification	S
AMPERAGE RATING	400 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM3
FEATURES	Protection unit Motor drive optional
ACCESSORIES REQUIRED	NZM3-4-XAVS
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-digital-nzm- brochure-br013003en-en- us.pdf
	eaton-feerum-the-whole- grain-solution-success- story-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog- ca013003en-en-us.pdf
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 011.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 015.eps
DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250293en.pdf
DRAWINGS	eaton-circuit-breaker- switch-nzm-mccb- dimensions-016.eps
	eaton-circuit-breaker-nzm- mccb-dimensions-021.eps
INSTALLATION INSTRUCTIONS	eaton-circuit-breaker- basic-unit-bg3- il012100zu.pdf
INSTALLATION VIDEOS	The new digital NZM Range
	Introduction of the new digital circuit breaker NZM
MCAD MODEL	DA-CD-nzm3_4_xave
	DA-CS-nzm3 4 xave eaton-molded-case-
PEP ECO-PASSPORT	switches-pep-eato-00252- v0101-en.pdf
TECHNICAL DATA SHEETS	eaton-nzm-technical- information-sheet

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	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	ls the panel builder's
ENCLOSURES MADE OF INSULATING MATERIAL	responsibility.
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INSULATING MATERIAL	responsibility.
INSULATING MATERIAL POLLUTION DEGREE	responsibility. 3 Withdrawable Built-in device slide-in
POLLUTION DEGREE MOUNTING METHOD	responsibility. 3 Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to
INSULATING MATERIAL POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT-	responsibility. 3 Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
INSULATING MATERIAL POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	responsibility. 3 Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
INSULATING MATERIAL POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT UTILIZATION CATEGORY	responsibility. 3 Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 72 W A (IEC/EN 60947-2) 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and
INSULATING MATERIAL POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT UTILIZATION CATEGORY ISOLATION AMBIENT OPERATING	responsibility. 3 Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 72 W A (IEC/EN 60947-2) 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
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NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) PROTECTION AGAINST DIRECT CONTACT DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT CURRENT RATING OF NEUTRAL CONDUCTOR LIFESPAN, MECHANICAL DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (ITERMINATIONS) IP00 (terminations, phase isolator and strip terminal) NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal 10 segments of 50 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 24 mm x 1 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 30 mm x 1 mm x 1 mm A 1 mm x 1 mm A 1 mm x 1 mm A 2 mm x 1 mm A 3 mm x 1 mm A 4 mm A 4 mm A 4 mm A 5 segments A 5 m		
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DIRECT CONTACT DIRECTION AGAINST 50274/VDE 0106 part 110 P20 (basic degree of protection, in the operating controls area) P20	CONTACTS (NORMALLY	0
DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT CURRENT RATING OF NEUTRAL CONDUCTOR LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) DEGREE OF POLES DEGREE OF POLES DEGREE OF POLES FOUR-pole Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at rear-side width extension MEXICOPPER STRIP) Min. 6 segments of 16 mm x 0.8 mm at tear-side connection (punched) Max. 10 segments of 32 mm x 1 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched)		proof to DIN EN
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LIFESPAIN, ELECTRICAL 3000 Operations at 690 V	(COPPER STRIP)	x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal 10 segments of 50 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear- side connection (punched)
	LIFESPAN, ELECTRICAL	3000 operations at 690 V

FUNCTIONS	AC-1 5000 operations at 415 V AC-1 5000 operations at 400 V AC-1 System and cable protection
ТҮРЕ	Circuit breaker
SPECIAL FEATURES	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 Icn) Overload and short-circuit protection LI R.m.s. value measurement and "thermal memory" USB interface for configuration and test function with Power Xpert Protection Manager software Rated current = rated uninterrupted current: 400 A Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer. Use in unearthed supply
APPLICATION	systems at 690 V 20 g (half-sinusoidal shock
SHOCK RESISTANCE	20 ms)
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	400 A
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL	< 10 ms

BREAKTIME	
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	3.3 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	3.3 kA
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	4400 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	800 A
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)	Max. 30 mm x 10 mm + 30 mm x 5 mm direct at switch rear-side connection M10 at rear-side screw connection Max. 10 mm x 50 mm (2x) at rear-side width extension Min. 20 mm x 5 mm direct at switch rear-side connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	300 mm² (2x) at rear-side width extension 16 mm² (2x) at box terminal 16 mm² (1x) at tunnel terminal 16 mm² (1x) direct at switch rear-side connection 16 mm² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal
	25 mm ² - 120 mm ² (2x) at box terminal 35 mm ² - 240 mm ² (1x) at box terminal 16 mm ² - 185 mm ² (1x) at
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	1-hole tunnel terminal 25 mm² - 240 mm² (1x) direct at switch rear-side connection 25 mm² - 240 mm² (2x) direct at switch rear-side connection

CONDUCTOR/CABLE)	50 mm ² - 240 mm ² (1x) at 2-hole tunnel terminal 50 mm ² - 240 mm ² (2x) at 2-hole tunnel terminal
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	11 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	400 A
OVERLOAD CURRENT SETTING (IR) - MIN	160 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	85 kA
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 440 V, 50/60 HZ	35 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	13 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	5 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	110 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	77 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	55 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM	40 kA

AT 690 V, 50/60 HZ	
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Box terminal. Connection on rear. Tunnel terminal
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	187 kA
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V
RATED INSULATION VOLTAGE (UI)	690 V AC

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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