Specifikace



Foto je ilustrační





Eaton 192324

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM3 PXR25 circuit breaker - integrated energy measurement class 1, 630A, 3p, Screw terminal, N, 3, M

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	192324
EAN	4015081928750
PRODUCT LENGTH/DEPTH	275 mm
PRODUCT HEIGHT	120.5 mm
PRODUCT WIDTH	140 mm
PRODUCT WEIGHT	6.65 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC
MODEL CODE	NZMN3-PMX450



Technické údaje produktu	
AMPERAGE RATING	450 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM3
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

Zdroje	
DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250293en.pdf
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 029.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 015.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 011.eps
INSTALAČNÍ NÁVODY	eaton-circuit-breaker- basic-unit-bg3- il012100zu.pdf
MCAD MODEL	DA-CD-nzm3_3p
	DA-CS-nzm3 3p
VÝKRESY	eaton-circuit-breaker- switch-nzm-mccb- dimensions-016.eps
	mccb-dimensions-020.eps

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.
FITTED WITH:	Thermal protection
POLLUTION DEGREE	3
MOUNTING METHOD	Built-in device fixed built- in technique Fixed
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	60.75 W
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
ISOLATION	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to VDE 0106 part 100

RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-3, 230 V RATED OPERATING POWER AT AC-3, 400 V SWITCH OFF TECHNIQUE DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL DEGREE OF PROTECTION OVERVOLTAGE CATEGORY III DEGREE OF PROTECTION (IP), FRONT SIDE Three-pole Min. 6 segments of 16 mm x 0.8 mm at box terminal) Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) 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 at box terminal Max. 10 segments of 32 mm x 1 mm at box terminal Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) 10 segments of 32 mm x 1 mm at box terminal Max. 10 segments of 24 mm x 1 mm at box terminal Max. 10 segments of 24 mm x 1 mm at box terminal Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 24 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 10 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 32 mm x 1 mm at rear- side connection (punched)		
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POWER AT AC-3, 400 V SWITCH OFF TECHNIQUE Electronic		132 kW
DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL 15000 operations OVERVOLTAGE CATEGORY DEGREE OF PROTECTION (IP, FRONT SIDE 1P40 (with insulating surround) DEGREE OF PROTECTION (TERMINATIONS) NUMBER OF POLES 1P10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) Min. 6 segments of 16 mm x 0.8 mm at toox terminal Min. 6 segments of 16 mm x 0.8 mm at toox terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) 10 segments of 50 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 24 mm x 1 mm at box terminal Max. 10 segments of 32 mm x 1 mm at box terminal Max. 10 segments of 32 mm x 1 mm at box terminal Max. 10 segments of 32 mm x 1 mm at box terminal Max. 10 segments of 32 mm x 1 mm at pox terminal Max. 10 segments of 32 mm x 1 mm at		250 kW
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CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY III DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) 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 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. 8 segments of 24 mm x 1 mm at rear-side connection (punched) MAX. 8 segments of 24 mm x 1 mm at rear-side connection (punched) MAX. 8 segments of 24 mm x 1 mm at rear-side connection (punched) MAX. 8 segments of 24 mm x 1 mm (2x) at box terminal Source of 24 mm x 1 mm (2x) at box terminal MAX. 8 segments of 24 mm x 1 mm (2x) at box terminal AC-1 2000 operations at 400 V AC-1 AC-3 3000 operations at 690 V AC-1		As required
OVERVOLTAGE CATEGORY IP66 (with door coupling rotary handle) IP40 (with insulating surround) DEGREE OF PROTECTION (TERMINATIONS) NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) 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 + 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. 8 segments of 34 mm x 1 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Figure 1	CONNECTION TYPE OF	Screw connection
DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) 10 segments of 50 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at box terminal Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 1 mm at box terminal Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Source of 32 mm x 1 mm (2x) at box terminal Four operations at 400 V AC-1 2000 operations at 690 V AC-3 3000 operations at 690 V AC-1	LIFESPAN, MECHANICAL	15000 operations
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AC-1 2000 operations at 690 V AC-3 3000 operations at 690 V AC-1		x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) 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 at box terminal Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box
	LIFESPAN, ELECTRICAL	5000 operations at 400 V AC-1 2000 operations at 690 V AC-3 3000 operations at 690 V AC-1

	AC-3 2000 operations at 415 V AC-3 5000 operations at 415 V AC-1
FUNCTIONS	Motor protection with class 1 energy metering Phase failure sensitive
ТҮРЕ	Circuit breaker

- IEC/EN 60947-2
 with characteristic
 conforming to
 IEC/EN 60947-4-1
 with phase failure
 sensitivity
- The circuit-breaker fulfills all requirements for AC-3 switching category.
- R.m.s. value measurement and "thermal memory"
- Adjustable time delay setting to overcome current peaks tr at 6 x Ir also infinity (without overload releases)
- All AC-3 rating data applies to direct switching by the circuit-breaker under normal operating conditions. If, for example, a contactor takes over AC-3 switching under normal operating conditions, the full rated uninterrupted current applies to the circuit-breaker, ln = lu.
- Maximum back-up fuse, if the expected shortcircuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated

SPECIAL FEATURES

short-circuit	
breaking capacity	
lcn)	

- Rated current = rated uninterrupted current: 450 A
- Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer.

APPLICATION SHOCK RESISTANCE	Use in unearthed supply systems at 690 V 20 g (half-sinusoidal shock 20 ms)
	_
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	450 A
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	5400 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	900 A
HANDLE TYPE	Rocker lever
INSTANTANEOUS CURRENT SETTING (II) - MAX	12 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	450 A
OVERLOAD CURRENT SETTING (IR) - MIN	180 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	85 kA
RATED SHORT-CIRCUIT	35 kA

BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	
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
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Box terminal. Connection on rear. Tunnel terminal
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	25 mm² - 185 mm² (1x) at tunnel terminal 50 mm² - 240 mm² (2x) at 2-hole tunnel terminal 50 mm² - 240 mm² (1x) at 2-hole tunnel terminal
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. 10 mm x 50 mm (2x) at rear-side width extension Min. 20 mm x 5 mm direct at switch rear-side connection M10 at rear-side screw connection Max. 30 mm x 10 mm + 30 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 (1x) at tunnel terminal 16 mm² (2x) at box terminal 16 mm² (1x) direct at switch rear-side connection 16 mm² (2x) direct at switch rear-side

	connection
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	25 mm² - 120 mm² (2x) at box terminal 25 mm² - 240 mm² (2x) direct at switch rear-side connection 35 mm² - 240 mm² (1x) at box terminal 16 mm² - 185 mm² (1x) at 1-hole tunnel terminal 25 mm² - 240 mm² (1x) direct at switch rear-side connection
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 HZ	35 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	74 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	53 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	40 kA
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
PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATUM:	



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