Specifications



Photo is representative





Eaton 192325

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM3 PXR25 circuit breaker - integrated energy measurement class 1, 250A, 3p, Screw terminal, H, 3, M

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	192325
MODEL CODE	NZMH3-PMX250
EAN	4015081928767
PRODUCT LENGTH/DEPTH	275 mm
PRODUCT HEIGHT	120.5 mm
PRODUCT WIDTH	140 mm
PRODUCT WEIGHT	6.65 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947
GLOBAL CATALOG	192325



Product specification	5
AMPERAGE RATING	250 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.
THERMAL STABILITY OF	•
THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS	standard's requirements. Meets the product
THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT.	standard's requirements. Meets the product standard's requirements. Meets the product
THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)	standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements.
THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to
THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION 10.2.5 LIFTING	Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to

	Resources	
	BROCHURES	eaton-digital-nzm- brochure-br013003en-en- us.pdf
	BROCHURES	eaton-feerum-the-whole- grain-solution-success- story-en-us.pdf
I	CATALOGS	eaton-digital-nzm-catalog- ca013003en-en-us.pdf
ion	CHADACTERISTIC CLIDVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 016.eps
	CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 012.eps
	DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250293en.pdf
e led	S DRAWINGS	eaton-circuit-breaker-nzm-mccb-dimensions-020.eps eaton-circuit-breaker-
e is		switch-nzm-mccb- dimensions-016.eps
ents.		eaton-general-ie-ready- dilm-contactor- standards.eps
ents.	INSTALLATION INSTRUCTIONS	eaton-circuit-breaker- basic-unit-bg3- il012100zu.pdf
nts. INSTALLATION VIDEO	INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM
		The new digital NZM Range
ents.	MCAD MODEL	DA-CD-nzm3_3p DA-CS-nzm3_3p
	TECHNICAL DATA SHEETS	eaton-nzm-technical- information-sheet
ents.		

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	Fixed Built-in device fixed built- in technique
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	18.75 W
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
ISOLATION	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main 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)	690 V
RATED OPERATING POWER AT AC-3, 230 V	75 kW
RATED OPERATING POWER AT AC-3, 400 V	132 kW
SWITCH OFF TECHNIQUE	Electronic
DEGREE OF PROTECTION	IP20 (basic degree of protection, in the operating controls area) IP20
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
LIFESPAN, MECHANICAL	15000 operations
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION (IP), FRONT SIDE	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
DEGREE OF PROTECTION (TERMINATIONS)	IP00 (terminations, phase isolator and strip terminal)
	IP10 (tunnel terminal)
NUMBER OF POLES	Three-pole
TERMINAL CAPACITY (COPPER STRIP)	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. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Min. 6 segments of 16 mm x 0.8 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)
LIFESPAN, ELECTRICAL	5000 operations at 415 V AC-1 2000 operations at 415 V AC-3 5000 operations at 400 V AC-1 2000 operations at 400 V

	AC-3 2000 operations at 690 V AC-3 3000 operations at 690 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: 250 A
- Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer.

APPLICATION	Use in unearthed supply systems at 690 V
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	250 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	4500 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	500 A
HANDLE TYPE	Rocker lever
	Nocker level
INSTANTANEOUS CURRENT SETTING (II) - MAX	18 A
INSTANTANEOUS CURRENT SETTING (II) -	
INSTANTANEOUS CURRENT SETTING (II) - MAX INSTANTANEOUS CURRENT SETTING (II) -	18 A 2 A
INSTANTANEOUS CURRENT SETTING (II) - MAX INSTANTANEOUS CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR -	18 A 2 A
INSTANTANEOUS CURRENT SETTING (II) - MAX INSTANTANEOUS CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR - MAX OVERLOAD CURRENT	18 A 2 A 60
INSTANTANEOUS CURRENT SETTING (II) - MAX INSTANTANEOUS CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR - MAX OVERLOAD CURRENT SETTING (IR) - MAX OVERLOAD CURRENT	18 A 2 A 60 250 A

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	130 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	33 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	9 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)	50 mm ² - 240 mm ² (2x) at 2-hole tunnel terminal 25 mm ² - 185 mm ² (1x) at tunnel terminal 50 mm ² - 240 mm ² (1x) at 2-hole tunnel terminal
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm ² - 2.5 mm ² (1x) 0.75 mm ² - 1.5 mm ² (2x)
TERMINAL CAPACITY (COPPER BUSBAR)	M10 at rear-side screw connection Max. 30 mm x 10 mm + 30 mm x 5 mm direct at switch rear-side 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 (1x) at tunnel terminal 16 mm² (1x) direct at switch rear-side connection 16 mm² (2x) at box terminal 16 mm² (2x) direct at switch rear-side

	connection
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	35 mm² - 240 mm² (1x) at box terminal 25 mm² - 240 mm² (1x) direct at switch rear-side connection 25 mm² - 120 mm² (2x) at box terminal 16 mm² - 185 mm² (1x) at 1-hole tunnel terminal 25 mm² - 240 mm² (2x) direct at switch rear-side connection
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 HZ	130 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	330 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	286 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	143 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	74 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	330 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:	
DATE:	



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