Specifications



Photo is representative





Eaton 192266

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM3 PXR25 circuit breaker - integrated energy measurement class 1, 400A, 3p, withdrawable unit, H, 3

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	192266
MODEL CODE	NZMH3-PX400-AVE
EAN	4015081928170
PRODUCT LENGTH/DEPTH	346 mm
PRODUCT HEIGHT	260 mm
PRODUCT WIDTH	185 mm
PRODUCT WEIGHT	16.54 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC



Product specification	S
AMPERAGE RATING	400 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM3
FEATURES	Motor drive optional Protection unit
ACCESSORIES REQUIRED	NZM3-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.

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eaton-digital-nzm- brochure-br013003en-en- us.pdf
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eaton-circuit-breaker-nzm- mccb-characteristic-curve- 012.eps
eaton-circuit-breaker-nzm- mccb-characteristic-curve- 016.eps
eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250293en.pdf
eaton-circuit-breaker-nzm- mccb-dimensions-020.eps
eaton-circuit-breaker- switch-nzm-mccb- dimensions-016.eps
eaton-circuit-breaker- basic-unit-bg3- il012100zu.pdf
Introduction of the new digital circuit breaker NZM
The new digital NZM Range
DA-CS-nzm3_3p DA-CD-nzm3_3p
eaton-nzm-technical-

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 ENCLOSURES MADE OF	Is the panel builder's
INSULATING MATERIAL	responsibility.
	responsibility.
INSULATING MATERIAL	· · · · · · · · · · · · · · · · · · ·
INSULATING MATERIAL POLLUTION DEGREE	3 Withdrawable Built-in device slide-in
POLLUTION DEGREE MOUNTING METHOD	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-	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	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	Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 48 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	Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 48 W A (IEC/EN 60947-2) 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
INSULATING MATERIAL POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT UTILIZATION CATEGORY ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 48 W A (IEC/EN 60947-2) 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) 70 °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
PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
DEGREE OF PROTECTION	IP20 IP20 (basic degree of protection, in the operating controls area)
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Other
LIFESPAN, MECHANICAL	15000 operations
OVERVOLTAGE CATEGORY	Ш
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
	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)
TERMINAL CAPACITY (COPPER STRIP)	10 segments of 50 mm x 1 mm (2x) at rear-side width extension Max. 8 segments of 24 mm x 1 mm (2x) at box terminal 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 box terminal
LIFESPAN, ELECTRICAL	3000 operations at 690 V AC-1

	5000 operations at 415 V AC-1 5000 operations at 400 V AC-1
FUNCTIONS	Systems, cable, selectivity and generator protection
ТҮРЕ	Circuit breaker

- LSI overload protection and delayed and nondelayed shortcircuit protective device
- Class 1 energy measurement, r.m.s. value measurement, and "thermal memory"
- USB interface for configuration and test function with Power Xpert Protection Manager software
- Interface module in equipment supplied.
- Optionally communicationcapable with internal Modbus RTU module or CAM
- Maximum back-up fuse, if the expected shortcircuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity
- Rated current = rated uninterrupted current: 400 A
- Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer.

SPECIAL FEATURES

APPLICATION

Use in unearthed supply

	systems at 690 V
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Connection at separate chassis part
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	400 A
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
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 DELAYED SETTING - MAX	4000 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	320 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	4800 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	800 A
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)	Min. 20 mm x 5 mm direct at switch rear-side connection 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
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	300 mm² (2x) at rear-side width extension 16 mm² (1x) direct at switch rear-side connection 16 mm² (2x) at box terminal 16 mm² (1x) at tunnel terminal 16 mm² (2x) direct at switch rear-side connection

TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	16 mm² - 185 mm² (1x) at 1-hole tunnel terminal 25 mm² - 240 mm² (1x) direct at switch rear-side connection 35 mm² - 240 mm² (1x) at box terminal 25 mm² - 120 mm² (2x) at box terminal 25 mm² - 240 mm² (2x) direct at switch rear-side connection
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
HANDLE TYPE	Rocker lever
SHORT DELAY CURRENT SETTING (ISD) - MAX	10 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	2 A
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	400 A
OVERLOAD CURRENT SETTING (IR) - MIN	160 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	150 kA
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,	33 kA

50/60 HZ	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	9 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
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	330 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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