Specifications



Photo is representative





Eaton 189617

NZMH4-PX800-TAZ. NZM4 PXR25 circuit breaker - integrated energy measurement class 1, 800A, 3p, Screw terminal, earth-fault protection, ARMS and zone selectivity

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	189617
MODEL CODE	NZMH4-PX800-TAZ
EAN	4015081875641
PRODUCT LENGTH/DEPTH	375 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	210 mm
PRODUCT WEIGHT	19 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC
GLOBAL CATALOG	189617



Product specification	S
AMPERAGE RATING	800 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM4
FEATURES	Protection unit Motor drive optional
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.

Resources	
BROCHURES	eaton-digital-nzm- brochure-br013003en-en- us.pdf
	eaton-feerum-the-whole- grain-solution-success- story-en-us.pdf
CATALOGS	eaton-digital-nzm-catalog- ca013003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250294en.pdf
DRAWINGS	eaton-circuit-breaker-nzm- mccb-dimensions-022.eps
INSTALLATION INSTRUCTIONS	eaton-circuit-breaker- basic-unit-bg4- il012101zu.pdf
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM The new digital NZM Range
MCAD MODEL	DA-CS-nzm4_3p DA-CD-nzm4_3p
PEP ECO-PASSPORT	eaton-molded-case- switches-pep-eato-00230- v0101-en.pdf
TECHNICAL DATA SHEETS	eaton-nzm-technical- information-sheet

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	Is 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.
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	79 W
UTILIZATION CATEGORY	B (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
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 VDE 0106 part 100
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	10000 operations
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION (IP), FRONT SIDE	IP66 (with door coupling rotary handle) IP40 (with insulating surround)
DEGREE OF PROTECTION (TERMINATIONS)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)
NUMBER OF POLES	Three-pole
TERMINAL CAPACITY (COPPER STRIP)	10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal 10 segments of 80 mm x 1 mm (2x) at rear-side width extension Min. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal
LIFESPAN, ELECTRICAL	3000 operations at 400 V AC-1 3000 operations at 415 V AC-1 2000 operations at 690 V AC-1

FUNCTIONS	Earth-fault protection Systems, cable, selectivity and generator protection Zone selectivity ARMS maintenance mode Integrated earth fault protection
EARTH-FAULT CURRENT SETTING (IG) - MAX	800 x In
ТҮРЕ	Circuit breaker

- LSIG overload protection and delayed and nondelayed shortcircuit protective device, earth-fault protection
- 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
- Zone selectivity ZSI
- Maintenance Mode ARMS
- 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 lcn)
- Rated current = rated uninterrupted current: 800 A

APPLICATION

SPECIAL FEATURES

SHOCK RESISTANCE EARTH-FAULT CURRENT SETTING (IG) - MIN POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RELEASE SYSTEM SHORT-CIRCUIT TOTAL BREAKTIME WITHSTAND CURRENT (T = 0.3 S) RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN 15 g (half-sinusoidal shock 11 ms) 160 x In Front side 10 A 10 A 10 A 2 A
SETTING (IG) - MIN POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RELEASE SYSTEM SHORT-CIRCUIT TOTAL BREAKTIME WITHSTAND CURRENT (T = 0.3 S) RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN
CONNECTION FOR MAIN CURRENT CIRCUIT RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RELEASE SYSTEM Electronic release SHORT-CIRCUIT TOTAL STATE SHORT-TIME WITHSTAND CURRENT (T = 0.3 S) RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN
CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RELEASE SYSTEM Electronic release SHORT-CIRCUIT TOTAL S 25 ms (1 415 V); < 35 ms (> 415 V) RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S) RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN
SHORT-CIRCUIT TOTAL BREAKTIME RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S) RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN
BREAKTIME (> 415 V) RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S) RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN
WITHSTAND CURRENT (T = 0.3 S) RATED SHORT-TIME WITHSTAND CURRENT (T = 19.2 kA = 19.2 kA = 19.2 kA = 10 A SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE
WITHSTAND CURRENT (T = 1 S) SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE
DELAYED SETTING - MAX SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE
DELAYED SETTING - MIN SHORT-CIRCUIT RELEASE
NON-DELAYED SETTING - 18 A MAX
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - 2 A MIN
TERMINAL CAPACITY 0.75 mm² - 2.5 mm² (1x) (CONTROL CABLE) 0.75 mm² - 1.5 mm² (2x)
Min. 25 mm x 5 mm direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection 50 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 60 mm x 10 mm at rear-side width extension Min. 25 mm x 5 mm at rear-side 1-hole module plate M10 at rear-side screw connection Max. 80 mm x 10 mm (2x) at rear-side width extension Max. 50 mm x 10 mm (2x) at rear-side width extension Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate
TERMINAL CAPACITY 95 mm ² - 300 mm ² (2x) at

(COPPER SOLID CONDUCTOR/CABLE)	rear-side 1-hole module plate 95 mm² - 240 mm² (6x) at rear-side width extension 35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 300 mm² (4x) at rear-side width extension 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	50 mm ² - 185 mm ² (4x) direct at switch rear-side connection 120 mm ² - 185 mm ² (1x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm² - 240 mm² (4x) at 4-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	18 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	800 A
OVERLOAD CURRENT SETTING (IR) - MIN	320 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	63 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	50 kA

(IEC/EN 60947) AT 440 V, 50/60 HZ	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	37 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	37 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	187 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	187 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	100 kA
STANDARD TERMINALS	Screw connection
OPTIONAL TERMINALS	Connection on rear. Strip terminal. Tunnel terminal
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	275 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:	



Eaton Corporation plc Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.









