

Eaton 189680

NZMH4-4-PX1600/VAR-TAZ-AVE. NZM4 PXR25 circuit breaker - integrated energy measurement class 1, 1600A, 4p, variable, Screw terminal, earth-fault protection, ARMS and zone selectivity, withdrawable unit

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PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	189680
PRODUCT LENGTH/DEPTH	501 mm
PRODUCT HEIGHT	280 mm
PRODUCT WIDTH	330 mm
PRODUCT WEIGHT	35.5 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947



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AMPERAGE RATING	1600 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM4
FEATURES	Protection unit Motor drive optional
ACCESSORIES REQUIRED	NZM4-4-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.

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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 INSULATING MATERIAL	ls the panel builder's responsibility.
INSULATING MATERIAL	' '
POLLUTION DEGREE	3
POLLUTION DEGREE	3
POLLUTION DEGREE LIFESPAN, MECHANICAL	3 10000 operations
POLLUTION DEGREE LIFESPAN, MECHANICAL UTILIZATION CATEGORY	3 10000 operations B (IEC/EN 60947-2) Withdrawable Built-in device slide-in
POLLUTION DEGREE LIFESPAN, MECHANICAL UTILIZATION CATEGORY MOUNTING METHOD	3 10000 operations B (IEC/EN 60947-2) Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC
POLLUTION DEGREE LIFESPAN, MECHANICAL UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT-	3 10000 operations B (IEC/EN 60947-2) Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
POLLUTION DEGREE LIFESPAN, MECHANICAL UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	3 10000 operations B (IEC/EN 60947-2) Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and
POLLUTION DEGREE LIFESPAN, MECHANICAL UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING	3 10000 operations B (IEC/EN 60947-2) Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
POLLUTION DEGREE LIFESPAN, MECHANICAL UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	3 10000 operations B (IEC/EN 60947-2) Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) 70 °C
POLLUTION DEGREE LIFESPAN, MECHANICAL UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE	3 10000 operations B (IEC/EN 60947-2) Withdrawable Built-in device slide-in technique (withdrawable) Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) 70 °C -25 °C

NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY 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 DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) NUMBER OF POLES Four-pole Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal) 10 segments of 80 mm x 1 mm (2x) at flat conductor terminal) 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 30 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 30 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 30 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 30 mm x 1 mm (2x) at 1-hole		
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NEUTRAL CONDUCTOR OVERVOLTAGE CATEGORY III DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) NUMBER OF POLES Four-pole 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. 5 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) 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	CONNECTION TYPE OF	Other
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LIFESPAN, ELECTRICAL 3000 operations at 400 V	(COPPER STRIP)	mm x 1 mm (2x) at flat conductor terminal 10 segments of 80 mm x 1 mm (2x) at rear-side width extension Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched) 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 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	Zone selectivity ARMS maintenance mode Earth-fault protection Systems, cable, selectivity and generator protection Integrated earth fault protection
EARTH-FAULT CURRENT SETTING (IG) - MAX	1600 x In
ТҮРЕ	Circuit breaker

protection and delayed and nondelayed shortcircuit protective device, earth-fault protection

LSIG overload

- 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)

SPECIAL FEATURES

 Rated current = rated uninterrupted current: 1600 A

APPLICATION	Use in unearthed supply systems at 525 V	
SHOCK RESISTANCE	15 g (half-sinusoidal shock 11 ms)	
EARTH-FAULT CURRENT SETTING (IG) - MIN	320 x In	
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Connection at separate chassis part	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1600 A	
RELEASE SYSTEM	Electronic release	
SHORT-CIRCUIT TOTAL BREAKTIME	< 25 ms (415 V); < 35 ms (> 415 V)	
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	19.2 kA	
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	19.2 kA	
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	16000 A	
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	1280 A	
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	19200 A	
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	3200 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)	Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 80 mm x 10 mm (2x) at rear-side width extension Min. 25 mm x 5 mm at rear-side 1-hole module plate 50 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 60 mm x 10 mm at rear-side width extension Max. 50 mm x 10 mm (2x)	

	direct at switch rear-side connection Min. 25 mm x 5 mm direct at switch rear-side connection M10 at rear-side screw connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	95 mm² - 240 mm² (6x) at rear-side width extension 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 300 mm² (4x) at rear-side width extension 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate 95 mm² - 300 mm² (2x) at rear-side 1-hole module plate
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	120 mm ² - 185 mm ² (1x) direct at switch rear-side connection 50 mm ² - 185 mm ² (4x) 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	38400 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	3200 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	1600 A
OVERLOAD CURRENT SETTING (IR) - MIN	640 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V,	63 kA

50 kA
50 kA
37 kA
37 kA
187 kA
187 kA
143 kA
100 kA
Screw terminal
Connection on rear. Strip terminal
275 kA
6000 V
8000 V

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