

# Eaton 192262

Catalog Number: 192262

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM3 PXR25, class 1, 400A, 3p, Screw terminal, earth-fault protection, ARMS and zone selectivity, H, 3



Photo is representative

## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller series NZM molded case circuit breaker electronic	192262
	<b>Model Code</b>
	NZMH3-PX400-TAZ
<b>EAN</b>	<b>Product Length/Depth</b>
4015081928132	275 mm
<b>Product Height</b>	<b>Product Width</b>
120.5 mm	140 mm
<b>Product Weight</b>	<b>Compliances</b>
6.65 kg	RoHS conform
<b>Certifications</b>	
IEC IEC/EN 60947	

## Type

Circuit breaker

## Special features

LSIG overload protection and delayed and non-delayed short-circuit 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 communication-capable with internal Modbus RTU module or CAM  
Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity  $I_{cn}$ )  
Rated current = rated uninterrupted current: 400 A  
Terminal capacity hint: Up to 240 mm<sup>2</sup> can be connected depending on the cable manufacturer.

## Application

Use in unearthed supply systems at 690 V

## Amperage Rating

400 A

## Voltage rating

## Brochures

[eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf](#)

[eaton-digital-nzm-brochure-br013003en-en-us.pdf](#)

## Catalogs

[eaton-digital-nzm-catalog-ca013003en-en-us.pdf](#)

## Characteristic curve

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-012.eps](#)

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-016.eps](#)

## Drawings

[eaton-circuit-breaker-nzm-mccb-dimensions-020.eps](#)

[eaton-circuit-breaker-switch-nzm-mccb-dimensions-016.eps](#)

## Installation instructions

[eaton-circuit-breaker-basic-unit-bg3-il012100zu.pdf](#)

## Installation videos

[The new digital NZM Range](#)

[Introduction of the new digital circuit breaker NZM](#)

## mCAD model

[DA-CD-nzm3\\_3p](#)

[DA-CS-nzm3\\_3p](#)

## Technical data sheets

[eaton-nzm-technical-information-sheet](#)

690 V - 690 V

#### Circuit breaker frame type

NZM3

#### 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.

#### 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

Is the panel builder's responsibility.

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### Pollution degree

3

#### Mounting Method

Built-in device fixed built-in technique

Fixed

#### Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

#### Equipment heat dissipation, current-dependent

48 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

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

Screw connection

Lifespan, mechanical

15000 operations

Overvoltage category

III

Degree of protection (IP), front side

IP66 (with door coupling rotary handle)

IP40 (with insulating surround)

Degree of protection (terminations)

IP00 (terminations, phase isolator and strip terminal)

IP10 (tunnel terminal)

Number of poles

Three-pole

Terminal capacity (copper strip)

Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1  
mm

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

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 rear-side connection (punched)

#### Lifespan, electrical

5000 operations at 400 V AC-1  
3000 operations at 690 V AC-1  
5000 operations at 415 V AC-1

#### Functions

Earth-fault protection  
ARMS maintenance mode  
Integrated earth fault protection  
Systems, cable, selectivity and generator protection  
Zone selectivity

#### Earth-fault current setting ( $I_g$ ) - max

400 x  $I_n$

#### Shock resistance

20 g (half-sinusoidal shock 20 ms)

#### Earth-fault current setting ( $I_g$ ) - min

80 x  $I_n$

#### Position of connection for main current circuit

Front side

#### Rated operational current for specified heat dissipation ( $I_n$ )

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<sup>2</sup> - 2.5 mm<sup>2</sup> (1x)

0.75 mm<sup>2</sup> - 1.5 mm<sup>2</sup> (2x)

#### 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

Max. 30 mm x 10 mm + 30 mm x 5 mm direct at switch rear-side connection

M10 at rear-side screw connection

#### Terminal capacity (copper solid conductor/cable)

16 mm<sup>2</sup> (1x) at tunnel terminal

16 mm<sup>2</sup> (1x) direct at switch rear-side connection

16 mm<sup>2</sup> (2x) direct at switch rear-side connection

16 mm<sup>2</sup> (2x) at box terminal

300 mm<sup>2</sup> (2x) at rear-side width extension

#### Terminal capacity (aluminum solid conductor/cable)

16 mm<sup>2</sup> (1x) at tunnel terminal

#### Terminal capacity (copper stranded conductor/cable)

25 mm<sup>2</sup> - 120 mm<sup>2</sup> (2x) at box terminal

16 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at 1-hole tunnel terminal

25 mm<sup>2</sup> - 240 mm<sup>2</sup> (2x) direct at switch rear-side connection

35 mm<sup>2</sup> - 240 mm<sup>2</sup> (1x) at box terminal

25 mm<sup>2</sup> - 240 mm<sup>2</sup> (1x) direct at switch rear-side connection

#### Terminal capacity (aluminum stranded conductor/cable)

50 mm<sup>2</sup> - 240 mm<sup>2</sup> (1x) at 2-hole tunnel terminal

50 mm<sup>2</sup> - 240 mm<sup>2</sup> (2x) at 2-hole tunnel terminal

25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at tunnel terminal

#### Handle type

Rocker lever

#### Short delay current setting (I<sub>sd</sub>) - max

10 A

#### Short delay current setting (I<sub>sd</sub>) - min

2 A

#### Instantaneous current setting (I<sub>i</sub>) - max

12 A

#### Instantaneous current setting (I<sub>i</sub>) - min

2 A

#### Number of operations per hour - max

60

#### Overload current setting (I<sub>r</sub>) - max

400 A

Overload current setting (I<sub>r</sub>) - min

160 A

Rated short-circuit breaking capacity I<sub>cs</sub> (IEC/EN 60947) at 230 V, 50/60 Hz

150 kA

Rated short-circuit breaking capacity I<sub>cs</sub> (IEC/EN 60947) at 400/415 V, 50/60 Hz

150 kA

Rated short-circuit breaking capacity I<sub>cs</sub> (IEC/EN 60947) at 440 V, 50/60 Hz

130 kA

Rated short-circuit breaking capacity I<sub>cs</sub> (IEC/EN 60947) at 525 V, 50/60 Hz

33 kA

Rated short-circuit breaking capacity I<sub>cs</sub> (IEC/EN 60947) at 690 V, 50/60 Hz

9 kA

Rated short-circuit making capacity I<sub>cm</sub> at 400/415 V, 50/60 Hz

330 kA

Rated short-circuit making capacity I<sub>cm</sub> at 440 V, 50/60 Hz

286 kA

Rated short-circuit making capacity I<sub>cm</sub> at 525 V, 50/60 Hz

143 kA

Rated short-circuit making capacity I<sub>cm</sub> 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 I<sub>cm</sub> at 240 V, 50/60 Hz

330 kA

Rated impulse withstand voltage (U<sub>imp</sub>) at auxiliary contacts

6000 V

Rated impulse withstand voltage (U<sub>imp</sub>) at main contacts

8000 V

Rated insulation voltage (U<sub>i</sub>)

690 V AC





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