

# Eaton 119887

Catalog Number: 119887

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 4p 1400A 1000VDC



Photo is representative

## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller series NZM switch-disconnector	119887
	<b>Model Code</b>
	N4-4-1400-S1-DC
<b>EAN</b>	<b>Product Length/Depth</b>
4015081177356	401 mm
<b>Product Height</b>	<b>Product Width</b>
207 mm	280 mm
<b>Product Weight</b>	<b>Compliances</b>
22 kg	RoHS conform
<b>Certifications</b>	
IEC	

## Type

DC switch-disconnector Switch-disconnector

## Special features

IEC/EN 60947-3 CCC China Compulsory Certificate Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. N switch-disconnectors can be combined with NZM...-XU, NZM...-XA shunt releases and auxiliary contacts as well as with NZM...-XR... remote operator. For DC switching, all 4 contacts must be connected in series. Refer to the information on jumper kit accessories. Supplied as standard: Screw connection box terminal optional. When working with ungrounded systems (e.g., IT), the installation must ensure that a double ground fault will be impossible. Switch can not be combined with plug-in/withdrawable units and/or connection on rear. N4-4-...-S15-DC feeder unit and outgoer from the bottom only. Lifespan, mechanical: of which max. 50 % trip by shunt/undervoltage release Rated current = rated uninterrupted current: 1400 A Values for rated uninterrupted current at 65 °C include jumpers.

## Application

Open areas Utility buildings

## Amperage Rating

1400 A

## Voltage rating

1000 V - 1000 V

## Circuit breaker frame type

N4

## Features

Version as emergency stop installation  
Version as maintenance-/service switch  
Remote operation with shunt releases / remote operator  
Version as main switch  
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.

## 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](#)

## Certification reports

[DA-DC-03\\_N4](#)

## Drawings

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

[eaton-circuit-breaker-terminals-nzm-switch-disconnector-3d-drawing-003.eps](#)

[eaton-circuit-breaker-nzm-switch-disconnector-3d-drawing.eps](#)

[eaton-circuit-breaker-cable-nzm-mccb-3d-drawing-004.eps](#)

[eaton-circuit-breaker-terminals-nzm-switch-disconnector-3d-drawing-002.eps](#)

[eaton-circuit-breaker-terminals-nzm-switch-disconnector-3d-drawing.eps](#)

## eCAD model

[DA-CE-ETN.N4-4-1400-S1-DC](#)

## Installation videos

[The new digital NZM Range](#)

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

## mCAD model

[DA-CS-nzm4\\_4p](#)

[DA-CD-nzm4\\_4p](#)

## Technical data sheets

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

#### 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

Fixed

Ground mounting

Intermediate mounting

Built-in device fixed built-in technique

Distribution board installation

#### Equipment heat dissipation, current-dependent

290 W

#### Utilization category

DC-22 A

#### Rated short-time withstand current (I<sub>cw</sub>)

34 kA

#### Degree of protection

IP20

#### Electrical connection type of main circuit

Screw connection

#### Ambient operating temperature - max

70 °C

#### Ambient operating temperature - min

-25 °C

#### Ambient storage temperature - max

70 °C

#### Ambient storage temperature - min

40 °C

#### Current rating (I<sub>u</sub>) at 40°C with terminal jumpers

1400 A

#### Current rating (I<sub>u</sub>) at 65°C with terminal jumpers

1400 A

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

Rated insulation voltage (Ui)

1250 V

Rated operating power at AC-23, 400 V

0 kW

Rated operating power at AC-3, 400 V

0 kW

Switch positions

I, +, 0

Lifespan, mechanical

10000 operations

Overvoltage category

III

Rated operational current

1400 A (DC 22-A)

1400 CSA (DC-21B)

Degree of protection (IP), front side

IP20

Number of poles

Four-pole

Terminal capacity (copper strip)

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)

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)

Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor  
terminal

Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal

Handle color

Black

Functions

Disconnectors/main switches

Interlockable

Voltage release optional

Photovoltaic applications

Number of switches

1

Rated conditional short-circuit current (I<sub>q</sub>)

0 kA

Rated operating voltage (U<sub>e</sub>) at AC - max

0 V

Rated operational current for specified heat dissipation (I<sub>n</sub>)

1400 A

Rated permanent current at AC-21, 400 V

0 A

Rated permanent current at AC-23, 400 V

0 A

Rated short-time withstand current (t = 0.1 s)

34 kA

Switching power at 400 V

0 kW

Handle type

Rocker lever

Number of operations per hour - max

60

Standard terminals

Screw terminal

Terminal capacity (copper busbar)

Min. 25 mm x 5 mm direct at switch rear-side connection

M10 at rear-side screw connection

Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate

Max. 10 mm x 80 mm (2x) at rear-side width extension

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. 25 mm x 5 mm at rear-side 1-hole module plate

Max. 80 mm x 10 mm (2x) direct at switch rear-side connection

Min. 60 mm x 10 mm at rear-side width extension

Terminal capacity (copper solid conductor/cable)

95 mm<sup>2</sup> - 240 mm<sup>2</sup> (6x) at rear-side width extension

120 mm<sup>2</sup> - 300 mm<sup>2</sup> (1x) at rear-side 1-hole module plate

95 mm<sup>2</sup> - 300 mm<sup>2</sup> (2x) at rear-side 1-hole module plate

35 mm<sup>2</sup> - 185 mm<sup>2</sup> (4x) at rear-side 2-hole module plate

95 mm<sup>2</sup> - 185 mm<sup>2</sup> (2x) at rear-side 2-hole module plate

50 mm<sup>2</sup> - 240 mm<sup>2</sup> (4x) at 4-hole tunnel terminal

300 mm<sup>2</sup> (4x) at rear-side width extension

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

50 mm<sup>2</sup> - 185 mm<sup>2</sup> (4x) direct at switch rear-side connection

120 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) direct at switch rear-side connection

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

25 mm<sup>2</sup> - 240 mm<sup>2</sup> (4x) at 4-hole tunnel terminal



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