

# Eaton 127733

Catalog Number: 127733

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 4p 200A 1000VDC



Photo is representative

## General specifications

Product Name	Catalog Number
Eaton Moeller series NZM switch-disconnector	127733
EAN	Model Code
4015081251438	N2-4-200-S1-DC
Product Height	Product Length/Depth
184 mm	149 mm
Product Weight	Product Width
2.878 kg	140 mm
Certifications	Compliances
IEC	RoHS conform

## defaultTaxonomyAttributeLabel

### 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: 200 A Values for rated uninterrupted current at 65 °C include jumpers.

### Application

Open areas Utility buildings

### Amperage Rating

200 A

### Voltage rating

1000 V - 1000 V

### Circuit breaker frame type

N2

### Features

Remote operation with shunt releases / remote operator

Version as emergency stop installation

Version as main switch

Version as maintenance-/service 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.

## Resources

### 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\\_N2](#)

### Drawings

[eaton-circuit-breaker-switch-nzm-mccb-dimensions-017.eps](#)

[eaton-circuit-breaker-nzm-mccb-dimensions-035.eps](#)

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

[eaton-circuit-breaker-cable-nzm-mccb-3d-drawing-002.eps](#)

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

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

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

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

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

### eCAD model

[DA-CE-ETN.N2-4-200-S1-DC](#)

### Installation instructions

[eaton-circuit-breaker-n2-4-s1-15-dc-il01207001z.pdf](#)

### Installation videos

[The new digital NZM Range](#)

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

### mCAD model

[DA-CS-nzm2\\_4p](#)

[DA-CD-nzm2\\_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

Ground mounting

Built-in device fixed built-in technique

Distribution board installation

Fixed

Intermediate mounting

### Equipment heat dissipation, current-dependent

42 W

### Utilization category

DC-22 A

### Rated short-time withstand current (Icw)

3.6 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 (Iu) at 40°C with terminal jumpers

200 A

### Current rating (Iu) at 65°C with terminal jumpers

200 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

20000 operations

Overvoltage category

III

Rated operational current

200 A (DC 22-A)

Degree of protection (IP), front side

IP20

Number of poles

Four-pole

Terminal capacity (copper strip)

Min. 2 segments of 9 mm x 0.8 mm at box terminal

Max. 8 segments of 15.5 mm x 0.8 mm (2x) at box terminal

Min. 2 segments of 16 mm x 0.8 mm at rear-side connection

(punched)

Max. 10 segments of 24 mm x 0.8 mm at rear-side connection

(punched)

Max. 10 segments of 16 mm x 0.8 mm at box terminal

Handle color

Black

Functions

Voltage release optional

Photovoltaic applications

Interlockable

Disconnectors/main switches

Number of switches

1

Rated conditional short-circuit current (Iq)

0 kA

Rated conditional short-circuit current with back-up fuse

200 AgR

15 kA at 1000 V

Rated operating voltage (Ue) at AC - max

0 V

Rated operational current for specified heat dissipation (In)

200 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 = 1 s)

3.6 kA

Switching power at 400 V

0 kW

Handle type

Rocker lever

Number of operations per hour - max

120

Standard terminals

Screw terminal

Short-circuit protective device fuses - max

200 A gR

Terminal capacity (copper busbar)

Min. 16 mm x 5 mm direct at switch rear-side connection

Max. 24 mm x 8 mm direct at switch rear-side connection

M8 at rear-side screw connection

Terminal capacity (copper solid conductor/cable)

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

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

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

4 mm<sup>2</sup> - 16 mm<sup>2</sup> (1x) at box terminal

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

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> - 185 mm<sup>2</sup> (1x) direct at switch rear-side connection  
25 mm<sup>2</sup> - 70 mm<sup>2</sup> (2x) at box terminal  
25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at tunnel terminal  
25 mm<sup>2</sup> - 70 mm<sup>2</sup> (2x) direct at switch rear-side connection  
25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at box terminal

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

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



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