

# Eaton 168471

Catalog Number: 168471

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 4p + plug-in contacts, 630A



## General specifications

Product Name	Catalog Number
Eaton Moeller series NZM switch-disconnector	168471
Model Code	N3-4-630-SVE
EAN	Product Length/Depth
4015081649525	335 mm
Product Height	Product Width
215.2 mm	185 mm
Product Weight	Compliances
7.75 kg	RoHS conform

### Special features

Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100.

Rated current = rated uninterrupted current: 630 A

### Amperage Rating

630 A

### Voltage rating

690 V - 690 V

### Features

Version as main switch

Version as maintenance-/service switch

Motor drive optional

Version as emergency stop installation

### 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.

### 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](#)

### Certification reports

[DA-DC-03\\_N3](#)

### eCAD model

[DA-CE-ETN.N3-4-630-SVE](#)

### Installation videos

[The new digital NZM Range](#)

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

### mCAD model

[nzmn3\\_4\\_a320\\_sve.dwg](#)

[nzmn3\\_4\\_a320\\_sve.stp](#)

### Technical data sheets

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

#### 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.

#### Mounting Method

Built-in device plug-in technique

Distribution board installation

Ground mounting

Intermediate mounting

#### Equipment heat dissipation, current-dependent

107.16 W

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

12 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

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 operating power at AC-23, 400 V

315 kW

Rated operating power at AC-3, 400 V

0 kW

Rated operational current

630 A (415 V AC-22A, making and breaking capacity)

500 A (415 V AC-23A, making and breaking capacity)

630 A (690 V AC-22A, making and breaking capacity)

500 A (690 V AC-23A, making and breaking capacity)

Degree of protection (IP), front side

IP20

Number of poles

Four-pole

Handle color

Black

Functions

Voltage release optional

Interlockable

Number of switches

1

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

0 kA

Rated operating voltage (Ue) at AC - max

690 V

Rated permanent current at AC-21, 400 V

0 A

Rated permanent current at AC-23, 400 V

0 A

Switching power at 400 V

0 kW

Handle type

Rocker lever

Short-circuit protective device fuses - max

630 A gL



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