

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 (I_{cw})

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_q)

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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