

Eaton 168893

Catalog Number: 168893

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 500A, withdrawable unit, H3-4-A500-SVE



Photo is representative

General specifications

Product Name	Catalog Number
Eaton Moeller series NZM molded case circuit breaker thermo-magnetic	168893
	Model Code
	NZMH3-4-A500-SVE
EAN	Product Length/Depth
4015081653843	335 mm
Product Height	Product Width
215.2 mm	185 mm
Product Weight	Compliances
8.81 kg	RoHS conform
Certifications	
IEC	

Special features

Rated current = rated uninterrupted current: 500 A

Amperage Rating

500 A

Voltage rating

690 V - 690 V

Features

Motor drive optional

Protection unit

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

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](#)

eCAD model

[DA-CE-ETN.NZMH3-4-A500-SVE](#)

Installation instructions

[IL01219023Z](#)

Installation videos

[The new digital NZM Range](#)

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

mCAD model

[nzm3_4_a320_sve.dwg](#)

[nzm3_4_a320_sve.stp](#)

Technical data sheets

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

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

Equipment heat dissipation, current-dependent

130.5 W

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

Degree of protection

IP20

Electrical connection type of main circuit

Screw connection

Current rating of neutral conductor

200% of phase conductor

Number of poles

Four-pole

Functions

System and cable protection

Position of connection for main current circuit

Front side

Rated operational current for specified heat dissipation (In)

500 A

Short-circuit release non-delayed setting - max

5000 A

Short-circuit release non-delayed setting - min

3000 A

Handle type

Rocker lever

Short delay current setting (I_{sd}) - max

0 A

Short delay current setting (I_{sd}) - min

0 A

Instantaneous current setting (I_i) - max

10 A

Instantaneous current setting (I_i) - min

6 A

Overload current setting (I_r) - max

500 A

Overload current setting (I_r) - min

400 A

Overload current setting (Ir)

400 A - 500 A

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at
400/415 V, 50/60 Hz

150 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 500
V DC

70 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 750
V DC

70 kA



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