Product specifications

Eaton 168530

Catalog Number: 168530

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3-pole, 450 A, plug-in module

General specifications

Product Name
Eaton Moeller series NZM molded case circuit breaker electronic

Catalog Number
168530

Model Code
NZMS3-ME450-SVE

EAN
4015081650279

Product Length/Depth
335 mm

Product Height
215.2 mm

Product Width
140 mm

Product Weight
7.72 kg

Compliances
RoHS conform

Powering Business Worldwide

defaultTaxonomyAttributeLabel

Type

Circuit breaker

Amperage Rating

450 A

Voltage rating

690 V - 690 V

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

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions

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

eCAD model

DA-CE-ETN.NZMS3-ME450-SVE

Installation instructions

IL01219023Z

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

mCAD model

nzmh3_me220_sve.dwg

nzmh3_me220_sve.stp

Technical data sheets

eaton-nzm-technical-information-sheet

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.

Fitted with:

Thermal protection

Mounting Method

Built-in device plug-in technique

Equipment heat dissipation, current-dependent

60.75 W

Rated operating power at AC-3, 230 V

132 kW

Rated operating power at AC-3, 400 V

250 kW

Switch off technique

Electronic

Degree of protection

IP20

Direction of incoming supply

As required

Electrical connection type of main circuit

Screw connection

Number of poles

Three-pole

Functions

Phase failure sensitive

Handle type

Rocker lever

Instantaneous current setting (Ii) - max

5400 A

Instantaneous current setting (Ii) - min

900 A

Overload current setting (Ir) - max

450 A

Overload current setting (Ir) - min

225 A

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

65 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz

65 kA

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

65 kA

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

Eaton.com/socialmedia