Eaton 290360

Catalog Number: 290360

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 63A 1000V

General specifications

Product Name

Eaton Moeller series NZM molded case

circuit breaker thermo-magnetic

Catalog Number

290360

Model Code

NZMH2-A63-S1

Product Length/Depth

EAN

4015082903602

149 mm

Product Height

184 mm

Product Width

105 mm

Product Weight

2.345 kg

Compliances

RoHS conform

Photo is representative

Certifications

IEC



defaultTaxonomyAttributeLabel

Type

Circuit breaker

Special features

Lifespan, mechanical: of which max. 50 % trip by shunt/undervoltage release NZM...S1 terminal type:

NZM...XKSA cover required Rated current = rated

uninterrupted current: 63 A
Terminal capacity hint: Up to
240 mm² can be connected
depending on the cable
manufacturer.

Amperage Rating

63 A

Voltage rating

1000 V - 1000 V

Circuit breaker frame type

NZM2

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.

Resources

Brochures

eaton-digital-nzm-brochure-br 013003 en-en-us.pdf eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf

Catalogs

eaton-digital-nzm-catalog-ca013003en-en-us.pdf

Characteristic curve

eaton-circuit-breaker-nzm-mccb-characteristic-curve-050.eps
eaton-circuit-breaker-let-through-current-nzm-mccb-characteristic-curve005.eps

eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-037.eps

Drawings

eaton-circuit-breaker-switch-nzm-mccb-dimensions-014.eps
eaton-circuit-breaker-nzm-mccb-dimensions-019.eps
eaton-circuit-breaker-switch-nzm-mccb-dimensions-017.eps
eaton-circuit-breaker-switch-nzm-mccb-3d-drawing.eps

Installation instructions

eaton-circuit-breakers-nzm2-basic-device-bg2-instruction-leaf letilol 206006z.pdf

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

mCAD model

DA-CD-nzm2_3p

DA-CS-nzm2_3p

Technical data sheets

eaton-nzm-technical-information-sheet

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 Mounting Method Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional Equipment heat dissipation, current-dependent 20.24 W Utilization category Α 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) Degree of protection IP20 Electrical connection type of main circuit Screw connection Lifespan, mechanical 20000 operations Overvoltage category Number of poles Three-pole Terminal capacity (copper strip)

Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched)

Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Lifespan, electrical 3000 operations at 1000 V AC-1 **Functions** System and cable protection Position of connection for main current circuit Front side Rated operational current for specified heat dissipation (In) 63 A Power loss 20.2 W Release system Thermomagnetic release Rated short-time withstand current (t = 0.3 s) 1.9 kA Rated short-time withstand current (t = 1 s) 1.9 kA Short-circuit release non-delayed setting - max 630 A Short-circuit release non-delayed setting - min 378 A Terminal capacity (control cable) 0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x) 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) 10 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 16 mm² (1x) at box terminal 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal

Terminal capacity (aluminum solid conductor/cable)

16 mm² (1x) at tunnel terminal

6 mm² - 16 mm² (2x) at box terminal

Terminal capacity (copper stranded conductor/cable) 25 mm² - 185 mm² (1x) at box terminal 25 mm² - 50 mm² (2x) direct at switch rear-side connection 25 mm² - 70 mm² (2x) at box terminal 25 mm² - 185 mm² (1x) at tunnel terminal Terminal capacity (aluminum stranded conductor/cable) 25 mm² - 185 mm² (1x) at tunnel terminal Handle type Rocker lever Short delay current setting (Isd) - max 0 A Short delay current setting (Isd) - min Instantaneous current setting (li) - max 630 A Instantaneous current setting (li) - min 380 A Number of operations per hour - max 120 Overload current setting (Ir) - max 63 A Overload current setting (Ir) - min 50 A Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 1000 V, 50/60 Hz 3 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz 150 kA 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 440 V, 50/60 Hz 130 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz

37.5 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz

5 kA

Rated short-circuit making capacity Icm at 1000 V, 50/60 Hz

17 kA

Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz

330 kA

Rated short-circuit making capacity Icm at 440 V, 50/60 Hz

286 kA

Rated short-circuit making capacity Icm at 525 V, 50/60 Hz

105 kA

Rated short-circuit making capacity Icm at 690 V, 50/60 Hz

40 kA

Standard terminals

Screw terminal

Rated short-circuit making capacity Icm at 240 V, 50/60 Hz

330 kA

Rated impulse withstand voltage (Uimp) at auxiliary contacts

6000 V

Rated impulse withstand voltage (Uimp) at main contacts

8000 V

Rated insulation voltage (Ui)

1000 V AC



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