Specifications

Eaton 119364

Catalog Number: 119364

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 220A, motor protection, 1000 V



General specifications

Product Name Eaton Moeller series NZM molded case circuit breaker electronic	**Catalog Number** 119364
	EAN 4015081175000
Product Length/Depth 166 mm	**Product Height** 275 mm
Product Width 140 mm	**Product Weight** 6.34 kg
Compliances RoHS conform	**Certifications** IEC

Powering Business Worldwide

Product specifications

Type

Circuit breaker

Special features

Lifespan, mechanical: of which max. 50% trip by shunt/undervoltage release
Phase-failure sensitivity IEC/EN 60947-4-1, IEC/EN 60947-2
R.m.s. value measurement and “thermal memory” adjustable time delay setting to overcome current peaks
tr: 2 – 20 s at 6 x Ir also infinity (without overload releases)
NZM...S1 terminal type: NZM...XKSA cover required
NZM4...S1 terminal type: Insulated busbar connection (NZM4-XKS screw connection)
Rated current = rated uninterrupted current: 220 A
Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer.

Amperage Rating

220 A

Voltage rating

1000 V - 1000 V

Circuit breaker frame type

NZM3

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.

Resources

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

Characteristic curve

eaton-circuit-breaker-nzm-mccb-characteristic-curve-031.eps

eaton-circuit-breaker-nzm-mccb-characteristic-curve-056.eps

eaton-circuit-breaker-nzm-mccb-characteristic-curve-034.eps

Drawings

eaton-circuit-breaker-nzm-mccb-dimensions-020.eps

eaton-circuit-breaker-switch-nzm-mccb-dimensions-016.eps

eaton-circuit-breaker-switch-nzm-mccb-3d-drawing-002.eps

eaton-general-ie-ready-dilm-contactor-standards.eps

Installation instructions

eaton-circuit-breaker-basic-device-nzmn-b-il01208009z.pdf

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

mCAD model

DA-CD-nzm3_3p

DA-CS-nzm3_3p

Technical data sheets

eaton-nzm-technical-information-sheet

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

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

Pollution degree

3

Mounting Method

Built-in device fixed built-in technique

Fixed

Equipment heat dissipation, current-dependent

14.52 W

Utilization category

A

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-25 °C

Ambient storage temperature - max

70 °C

Ambient storage temperature - min

40 °C

Rated insulation voltage (Ui)

1000 V

Rated operating power at AC-3, 230 V

55 kW

Rated operating power at AC-3, 400 V

110 kW

Switch off technique

Electronic

Degree of protection

IP20

Direction of incoming supply

As required

Electrical connection type of main circuit

Screw connection

Lifespan, mechanical

15000 operations

Overvoltage category

III

Number of poles

Three-pole

Terminal capacity (copper strip)

Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)
Max. 8 segments of 24 mm x 1 mm (2x) at box terminal
Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm at box terminal
10 segments of 50 mm x 1 mm (2x) at rear-side width extension
Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched)
Min. 6 segments of 16 mm x 0.8 mm at box terminal

Lifespan, electrical

1000 operations at 1000 V AC-1

Functions

Phase failure sensitive
Motor protection

Rated operational current for specified heat dissipation (In)

220 A

Rated short-time withstand current (t = 0.3 s)

3.3 kA

Rated short-time withstand current (t = 1 s)

3.3 kA

Short-circuit release non-delayed setting - max

3080 A

Short-circuit release non-delayed setting - min

220 A

Handle type

Rocker lever

Instantaneous current setting (Ii) - max

3080 A

Instantaneous current setting (Ii) - min

220 A

Number of operations per hour - max

60

Overload current setting (Ir) - max

220 A

Overload current setting (Ir) - min

110 A

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 1000 V, 50/60 Hz

10 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

130 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

33 kA

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

9 kA

Standard terminals

Screw terminal

Release system

Electronic release

Terminal capacity (aluminum solid conductor/cable)

16 mm² (1x) at tunnel terminal

Terminal capacity (aluminum stranded conductor/cable)

50 mm² - 240 mm² (2x) at 2-hole tunnel terminal

50 mm² - 240 mm² (1x) at 2-hole tunnel terminal

25 mm² - 185 mm² (1x) at tunnel terminal

Terminal capacity (control cable)

0.75 mm² - 2.5 mm² (1x)

0.75 mm² - 1.5 mm² (2x)

Terminal capacity (copper busbar)

M10 at rear-side screw connection

Min. 20 mm x 5 mm direct at switch rear-side connection

Max. 30 mm x 10 mm + 30 mm x 5 mm direct at switch rear-side connection

Max. 10 mm x 50 mm (2x) at rear-side width extension

Terminal capacity (copper solid conductor/cable)

16 mm² (2x) at box terminal

10 mm² - 16 mm² (2x) direct at switch rear-side connection

16 mm² (1x) direct at switch rear-side connection

Terminal capacity (copper stranded conductor/cable)

25 mm² - 120 mm² (1x) direct at switch rear-side connection

25 mm² - 185 mm² (1x) at tunnel terminal

35 mm² - 240 mm² (1x) at box terminal

25 mm² - 120 mm² (2x) at box terminal

25 mm² - 120 mm² (2x) direct at switch rear-side connection

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

130 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

143 kA

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

74 kA

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



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