Eaton 112708

Catalog Number: 112708

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuitbreaker, 3p, 125A, plug-in module, B, frame 1, A125-SVE

General specifications

Product Name

Eaton Moeller series NZM molded case 112708

circuit breaker thermo-magnetic

Catalog Number

Model Code

NZMB1-A125-SVE

Product Length/Depth

4015081122585

Product Height

201 mm

EAN

Product Width

95 mm

90 mm

Product Weight

1.203 kg

Compliances

RoHS conform

Photo is representative

Certifications

IEC/EN 60947

IEC



defaultTaxonomyAttributeLabel

Type

Circuit breaker

Special features

Maximum back-up fuse, if

the expected short-circuit

currents at the installation

location exceed the

switching capacity of the

circuit breaker (Rated short-

circuit breaking capacity Icn)

Rated current = rated

uninterrupted current: 125 A

Terminal capacity hint: Up to

95 mm² can be connected

depending on the cable

manufacturer.

Application

Use in unearthed supply systems at 440 V

Amperage Rating

125 A

Voltage rating

440 V - 440 V

Circuit breaker frame type

NZM1

Features

Protection unit

Accessories required

NZM1-XSVS

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.

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

Characteristic curve

eaton-circuit-breaker-nzm-mccb-characteristic-curve-051.eps

eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-038.eps

eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-032.eps

Drawings

eaton-circuit-breaker-switch-nzm-mccb-dimensions-014.eps
eaton-circuit-breaker-nzm-mccb-dimensions-017.eps
eaton-circuit-breaker-adapter-nzm-mccb-dimensions.eps

eCAD model

ETN.112708.edz

DA-CE-ETN.NZMB1-A125-SVE

Installation instructions

eaton-cirucit-breaker-switch-disconnector-nzmb-il01203004z.pdf

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

mCAD model

DA-CS-nzml_xsve

DA-CD-nzml_xsve

Technical data sheets

eaton-nzm-technical-information-sheet

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. Pollution degree 3 Mounting Method Plug-in unit DIN rail (top hat rail) mounting optional Built-in device plug-in technique Climatic proofing Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Equipment heat dissipation, current-dependent 26.72 W Utilization category A (IEC/EN 60947-2) Isolation 500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts) Ambient operating temperature - max 70 °C Ambient operating temperature - min -25 °C Ambient storage temperature - max 70 °C Ambient storage temperature - min Number of auxiliary contacts (change-over contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Number of auxiliary contacts (normally open contacts) 0

Protection against direct contact

Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part

110

Degree of protection IP20 IP20 (basic degree of protection, in the operating controls area) Direction of incoming supply As required Electrical connection type of main circuit Frame clamp Lifespan, mechanical 20000 operations Overvoltage category Ш Degree of protection (IP), front side IP66 (with door coupling rotary handle) IP40 (with insulating surround) Degree of protection (terminations) IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) Number of poles Three-pole Terminal capacity (copper strip) Max. 9 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Lifespan, electrical 7500 operations at 400 V AC-1 7500 operations at 415 V AC-1 **Functions** System and cable protection Shock resistance 20 g (half-sinusoidal shock 20 ms) Position of connection for main current circuit Front side Rated operational current for specified heat dissipation (In) 125 A Power loss 26.7 W

Release system

Thermomagnetic release

Short-circuit total breaktime

Short-circuit release non-delayed setting - max

1250 A

Short-circuit release non-delayed setting - min

750 A

Terminal capacity (control cable)

0.75 mm² - 2.5 mm² (1x)

0.75 mm² - 1.5 mm² (2x)

Terminal capacity (copper busbar)

Max. 16 mm x 5 mm direct at switch rear-side connection

Min. 12 mm x 5 mm direct at switch rear-side connection

M6 at rear-side screw connection

Terminal capacity (copper solid conductor/cable)

16 mm² (1x) at tunnel terminal

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

6 mm² - 16 mm² (2x) at box terminal

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

10 mm² - 16 mm² (1x) at box terminal

Terminal capacity (aluminum solid conductor/cable)

16 mm² (1x) at tunnel terminal

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

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

Terminal capacity (copper stranded conductor/cable)

6 mm² - 25 mm² (2x) at box terminal

25 mm² - 95 mm² (1x) at 1-hole tunnel terminal

10 mm² - 70 mm² (1x) direct at switch rear-side connection

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

10 mm² - 70 mm² (1x) at box terminal

Terminal capacity (aluminum stranded conductor/cable)

25 mm² - 95 mm² (1x) at tunnel terminal

25 mm² - 35 mm² (2x) direct at switch rear-side connection

25 mm² - 35 mm² (1x) direct at switch rear-side connection

Handle type

Rocker lever

Short delay current setting (Isd) - max

0 A

Short delay current setting (Isd) - min

0 A

Instantaneous current setting (li) - max

1250 A

Instantaneous current setting (li) - min 750 A Number of operations per hour - max 120 Overload current setting (Ir) - max 125 A Overload current setting (Ir) - min 100 A Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz 30 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz 25 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz 18.5 kA Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz 53 kA Rated short-circuit making capacity Icm at 440 V, 50/60 Hz 53 kA Standard terminals Box terminal Optional terminals Connection on rear. Screw terminal. Tunnel terminal Rated short-circuit making capacity Icm at 240 V, 50/60 Hz 63 kA Rated impulse withstand voltage (Uimp) at auxiliary contacts 6000 V Rated impulse withstand voltage (Uimp) at main contacts 6000 V Rated insulation voltage (Ui) 690 V AC



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

Reserved.

Eaton is a registered trademark.

All other trademarks are © 2024 Eaton. All Rights property of their respective owners.



Eaton.com/socialmedia