

Eaton 259608

Catalog Number: 259608

Eaton Moeller series NZM - Molded Case Circuit Breaker.
Undervoltage release, 110-130VDC, +2early N/O, 2/3

General specifications



Product Name

Eaton Moeller series NZM - Molded case
circuit breaker

Catalog Number

Model Code

NZM2/3-XUHIV110-130DC

EAN

4015082596088

Product Length/Depth

42 mm

Product Height

90 mm

Product Width

30 mm

Product Weight

0.074 kg

Compliances

IEC
UL/CSA
RoHS conform

Certifications

UL (Category Control Number DIHS)
IEC60947
CSA-C22.2 No. 5-09
CSA (Class No. 1437-01)
UL489
UL (File No. E140305)
CSA (File No. 22086)
CE marking
UL listed
CSA certified

Product specifications

Used with

NZM2(-4), N(S)2(-4)

NZM3(-4), N(S)3(-4)

Type

Accessory

Undervoltage release with
early-make auxiliary contact

Special features

Undervoltage release with 2
early-make auxiliary
contacts, e.g., for early-
make connection of
undervoltage release in
main switch applications, as
well as for interlock and load
shedding circuits.

For use with emergency-
stop devices in connection
with an emergency-stop
button.

When the under-voltage trip
is switched off, accidental
contact with the circuit
breaker's primary contacts is
prevented when switched
on.

Early make of auxiliary
contacts on switching on
and off (manual operation):
approx. 20 ms

Undervoltage releases
cannot be installed
simultaneously with NZM...-
XHIV... early-make auxiliary
contact or NZM...-XA...
shunt release.

Cannot be used in
conjunction with NZM...-
XR... remote operator.

10.10 Temperature rise

The panel builder is responsible for the temperature rise
calculation. Eaton will provide heat dissipation data for the
devices.

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](#)

Declarations of conformity

[DA-DC-03_NZM2](#)

eCAD model

[ETN.NZM2_3-XUHIV110-130DC](#)

Installation instructions

[eaton-circuit-breaker-voltage-release-nzm2-3-il012141zu.pdf](#)

Installation videos

[The new digital NZM Range](#)

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

Specifications and datasheets

[Eaton Specification Sheet - 259608](#)

Technical data sheets

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

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

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.

Electric connection type

Screw connection

Fitted with:

Two early-make auxiliary contacts

Frame

NZM2/3

Minimum command time - max

15 ms

Minimum command time - min

10 ms

Number of contacts (normally open contacts)

2

Reaction time

19 ms

Pick-up power consumption at AC (undervoltage release)

1.5 VA

Pick-up power consumption at DC (undervoltage release)

0.8 W

Voltage tolerance - max

1.1

Voltage tolerance - min

.85

Rated control supply voltage

110 - 130 V DC

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

Rated control supply voltage (Us) at AC, 50 Hz - min

0 V

Rated control supply voltage (Us) at AC, 60 Hz - max

0 V

Rated control supply voltage (Us) at AC, 60 Hz - min

0 V

Suitable for

Off-load switch

Power circuit breaker

Connection type

With bolt connection

Voltage type

DC

Drop-out voltage of undervoltage release AC/DC - max

0.7 x Us

Drop-out voltage of undervoltage release AC/DC - min

0.35 x Us

Terminal capacity (solid/flexible conductor)

0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed
with ferrule

18 - 14 AWG (1x) for undervoltage releases, off-delayed

18 - 14 AWG (2x) at shunt release

18 - 14 AWG (2x) for undervoltage releases, off-delayed

0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule

0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule

0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed
with ferrule

18 - 14 AWG (1x) at shunt release

Power consumption

1.5 VA (sealing AC)

0.8 W (sealing DC)

Rated control supply voltage (Us) at DC - max

130 V

Rated control supply voltage (Us) at DC - min

110 V

Number of contacts (normally closed contacts)

0

Number of contacts (change-over contacts)

0

Undelayed short-circuit release - min

0 A

Undelayed short-circuit release - max

0 A

Rated control voltage (relay contacts)

110 V DC

130 V DC



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