Specifications

# Eaton 259497

## Catalog Number: 259497

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 110-130VAC, 2/3




### General specifications

**Product Name**
Eaton Moeller series NZM release

**Catalog Number**
259497

**EAN**
4015082594978

**Product Length/Depth**
42 mm

**Product Height**
90 mm

**Product Width**
30 mm

**Product Weight**
0.091 kg

**Compliances**
UL/CSA
IEC
RoHS conform

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

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## Product specifications

### Used with

NZM2(-4), N(S)2(-4)
NZM3(-4), N(S)3(-4)

### Type

Accessory
Undervoltage release

### Special features

Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% US.
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.
Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.

### 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.

## 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

### Declarations of conformity

DA-DC-03_NZM2

### eCAD model

ETN.NZM2_3-XU110-130AC

### Installation instructions

eaton-circuit-breaker-voltage-release-nzm2-3-il012141zu.pdf

### Installation videos

Introduction of the new digital circuit breaker NZM

The new digital NZM Range

### Technical data sheets

eaton-nzm-technical-information-sheet

### 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

Frame

NZM2/3

Minimum command time - max

15 ms

Minimum command time - min

10 ms

Number of contacts (normally open contacts)

0

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 50/60 Hz

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

130 V

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

110 V

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

130 V

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

110 V

Suitable for

Off-load switch

Connection type

With bolt connection

Voltage type

AC

### 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)

18 - 14 AWG (1x) for undervoltage releases, off-delayed
0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed 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 (2x) for undervoltage releases, off-delayed
18 - 14 AWG (1x) at shunt release
0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule
18 - 14 AWG (2x) at shunt release

### Power consumption

1.5 VA (sealing AC)
0.8 W (sealing DC)

### Rated control supply voltage (Us) at DC - max

0 V

### Rated control supply voltage (Us) at DC - min

0 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 AC
130 V AC




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