# Eaton 259438

NZM1-XU 208-240V AC

# Catalog Number: 259438

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 60VAC, 1



**Product Name** 

Eaton Moeller series NZM release

EAN

4015082594381

Product Height

66 mm

**Product Weight** 

0.044 kg

Catalog Number

259438

Product Length/Depth

37 mm

**Product Width** 

32 mm

Compliances

UL/CSA

IEC

RoHS conform



UL (File No. E140305)

CSA certified

CSA (File No. 22086)

**UL489** 

UL (Category Control Number DIHS)

IEC60947

CSA-C22.2 No. 5-09

CSA (Class No. 1437-01)

CE marking

**UL** listed



# Product specifications

#### Used with

NZM1(-4), N(S)1(-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.

### 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

### 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\_NZM1

#### **Drawings**

eaton-circuit-breaker-release-nzm-mccb-dimensions.eps
eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-004.eps

#### eCAD model

ETN.259438.edz

#### Installation videos

Introduction of the new digital circuit breaker NZM

The new digital NZM Range

#### mCAD model

DA-CD-nzm1\_xu

DA-CS-nzm1\_xu

#### Technical data sheets

eaton-nzm-technical-information-sheet

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

NZM1

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 60 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - max 60 V Rated control supply voltage (Us) at AC, 50 Hz - min 60 V Rated control supply voltage (Us) at AC, 60 Hz - max 60 V Rated control supply voltage (Us) at AC, 60 Hz - min 60 V Suitable for Off-load switch Connection type With terminal block on the left-hand switch side 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) at shunt release 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) at shunt release with ferrule 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) for undervoltage releases, off-delayed

with ferrule

18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) at shunt release with ferrule

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)

Number of contacts (change-over contacts)

Undelayed short-circuit release - min

0 A

Undelayed short-circuit release - max

0 A

Rated control voltage (relay contacts)

60 V AC



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