# Eaton 259598

## Catalog Number: 259598

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 480-525VAC, +2early N/O, 2/3

## General specifications

**Product Name** 

Eaton Moeller series NZM release

**EAN** 

4015082595982

Product Height

90 mm

**Product Weight** 

0.074 kg

Catalog Number

259598

Product Length/Depth

42 mm

**Product Width** 

30 mm

Compliances

IEC

UL/CSA

RoHS conform

## Certifications

CE marking

CSA certified

CSA (File No. 22086)

UL (Category Control Number DIHS)

CSA (Class No. 1437-01)

UL489

UL (File No. E140305)

**UL** listed

IEC60947

CSA-C22.2 No. 5-09



### Product specifications

#### Used with

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

button.

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

with an emergency-stop

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-XUHIV480-525AC

#### 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

#### 10.11 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 480 - 525 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - max 525 V Rated control supply voltage (Us) at AC, 50 Hz - min

480 V Rated control supply voltage (Us) at AC, 60 Hz - max 525 V Rated control supply voltage (Us) at AC, 60 Hz - min 480 V Suitable for Off-load switch Connection type With bolt connection Connection Screw 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 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 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) for undervoltage releases, off-delayed with ferrule 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 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 Power consumption 0.8 W (sealing DC) 1.5 VA (sealing AC)

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)

525 V AC

480 V AC



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