# Eaton 259583

### Catalog Number: 259583

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 24VAC, +2early N/O, 2/3

### General specifications



Eaton Moeller series NZM release

**EAN** 

4015082595838

Product Height

90 mm

**Product Weight** 

0.102 kg

Catalog Number

259583

Product Length/Depth

42 mm

**Product Width** 

30 mm

Compliances

UL/CSA

IEC

RoHS conform



CSA (Class No. 1437-01)

UL489

IEC60947

UL (File No. E140305)

**UL** listed

CSA-C22.2 No. 5-09

UL (Category Control Number DIHS)

CSA certified

CSA (File No. 22086)

CE marking





#### 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

button.

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

with an emergency-stop

on.

Early make of auxiliary

contacts on switching on

and off (manual operation):

approx. 20 ms

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-XUHIV24AC

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 24 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - max 24 V Rated control supply voltage (Us) at AC, 50 Hz - min

0 A

Rated control supply voltage (Us) at AC, 60 Hz - max 24 V Rated control supply voltage (Us) at AC, 60 Hz - min 24 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) 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> (2x) at shunt release with ferrule 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 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 0 V Rated control supply voltage (Us) at DC - min 0 V Number of contacts (normally closed contacts) Number of contacts (change-over contacts) 0 Undelayed short-circuit release - min

Undelayed short-circuit release - max

0 A

Rated control voltage (relay contacts)

24 V AC



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