Eaton 259491

Catalog Number: 259491

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

General specifications



Eaton Moeller series NZM release

EAN

4015082594916

Product Height

90 mm

Product Weight

0.093 kg

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Product Length/Depth

42 mm

Product Width

30 mm

Compliances

IEC

UL/CSA

RoHS conform

Certifications

CSA (Class No. 1437-01)

CSA certified

UL (File No. E140305)

UL (Category Control Number DIHS)

CSA (File No. 22086)

UL listed

CE marking

IEC60947

CSA-C22.2 No. 5-09

UL489



Powering Business Worldwide



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 emergencystop 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-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-XU24AC

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) 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 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

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

 $0.75 \ \text{mm}^2$ - $2.5 \ \text{mm}^2$ (1x) for undervoltage releases, off-delayed with ferrule

18 - 14 AWG (2x) at shunt release

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

 $0.75 \ \text{mm}^2$ - $2.5 \ \text{mm}^2$ (2x) for undervoltage releases, off-delayed with ferrule

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

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

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

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)

24 V AC



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