Eaton 259471

Catalog Number: 259471

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 208-240VAC, L

General specifications



Product Name

Eaton Moeller series NZM release

EAN

4015082594718

Product Height

66 mm

Product Weight

0.107 kg

Catalog Number

259471

Product Length/Depth

37 mm

Product Width

32 mm

Compliances

UL/CSA IEC

RoHS conform

Certifications

CSA-C22.2 No. 5-09

CSA (Class No. 1437-01)

UL489

CSA (File No. 22086)

CE marking

UL (File No. E140305)

CSA certified

IEC60947

UL (Category Control Number DIHS)

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-003.eps

eCAD model

DA-CE-ETN.NZM1-XUL208-240AC

Installation instructions

eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-xu-xuhiv-il01203002z.pdf

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

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 208 - 240 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - max 240 V Rated control supply voltage (Us) at AC, 50 Hz - min 208 V Rated control supply voltage (Us) at AC, 60 Hz - max 240 V Rated control supply voltage (Us) at AC, 60 Hz - min 208 V Suitable for Off-load switch Connection type With 3 m connection cable instead of screw termination 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 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) 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) for undervoltage releases, off-delayed 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) at shunt release

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)

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)

240 V AC

208 V AC



Eaton Corporation plc Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

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