Eaton 259531

Catalog Number: 259531

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 24VAC, +2early N/O, 1

General specifications



Product Name

Eaton Moeller series NZM release

EAN

4015082595319

Product Height

66 mm

Product Weight

0.084 kg

Catalog Number

259531

Product Length/Depth

37 mm

Product Width

32 mm

Compliances

UL/CSA

IEC

RoHS conform

Certifications

UL (File No. E140305)

CSA-C22.2 No. 5-09

CE marking

IEC60947

CSA (Class No. 1437-01)

UL (Category Control Number DIHS)

UL listed

CSA certified

UL489

CSA (File No. 22086)



Product specifications

Used with

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

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.

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.

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.

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.259531.edz

Installation instructions

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

Installation videos

Introduction of the new digital circuit breaker NZM

The new digital NZM Range

mCAD model

DA-CS-nzm1_xu

DA-CD-nzm1_xu

Technical data sheets

eaton-nzm-technical-information-sheet

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 NZM1 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 24 V 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 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) 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 18 - 14 AWG (1x) at shunt release 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 0.75 mm^2 - 2.5 mm^2 (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (2x) for undervoltage releases, off-delayed 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



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