

Eaton 259531

Catalog Number: 259531

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

General specifications



Product Name	Catalog Number
Eaton Moeller series NZM release	259531
Model Code	EAN
NZM1-XUHIV24AC	4015082595319
Product Length/Depth	Product Height
37 mm	66 mm
Product Width	Product Weight
32 mm	0.084 kg
Compliances	Certifications
UL/CSA	UL (File No. E140305)
IEC	CSA-C22.2 No. 5-09
RoHS conform	CE marking
	IEC60947
	CSA (Class No. 1437-01)
	UL (Category Control Number DIHS)
	UL listed
	CSA certified
	UL489
	CSA (File No. 22086)

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.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the

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](#)

Certification reports

[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-i101203002z.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](#)

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

Used with

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

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

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 mm² - 2.5 mm² (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)

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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