Specifications

Eaton 259454

Catalog Number: 259454

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 60 V DC, 1



General specifications

Product Name
Eaton Moeller series NZM release

Catalog Number
259454

EAN
4015082594541

Product Length/Depth
37 mm

Product Height
66 mm

Product Width
32 mm

Product Weight
0.044 kg

Compliances
IEC
UL/CSA
RoHS conform

Certifications
CSA (File No. 22086)
CE marking
CSA certified
CSA (Class No. 1437-01)
IEC60947
UL (File No. E140305)
UL listed
UL489
UL (Category Control Number DIHS)
CSA-C22.2 No. 5-09

Powering Business Worldwide

Product specifications

Used with

NZM1(-4), N1(-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-004.eps

eCAD model

DA-CE-ETN.NZM1-XU60DC

Installation videos

Introduction of the new digital circuit breaker NZM

The new digital NZM Range

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

60 V DC

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

Rated control supply voltage (Us) at AC, 50 Hz - min

0 V

Rated control supply voltage (Us) at AC, 60 Hz - max

0 V

Rated control supply voltage (Us) at AC, 60 Hz - min

0 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 (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) at shunt release with ferrule
18 - 14 AWG (1x) at shunt release
0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule
18 - 14 AWG (2x) for undervoltage releases, off-delayed

18 - 14 AWG (2x) at shunt release

18 - 14 AWG (1x) 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

60 V

Rated control supply voltage (Us) at DC - min

60 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)

60 V DC

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

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