Specifications

Eaton 259812



Catalog Number: 259812

Eaton Moeller series NZM - Molded Case Circuit Breaker. Shunt release, 48VAC/DC, +1early N/O, 2/3

General specifications

Product Name
Eaton Moeller series NZM release

Catalog Number
259812

EAN
4015082598129

Product Length/Depth
42 mm

Product Height
90 mm

Product Width
30 mm

Product Weight
0.064 kg

Compliances
IEC
UL/CSA
RoHS conform

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

Powering Business Worldwide

Product specifications

Used with

NZM3(-4), N(S)3(-4)
NZM2(-4), N(S)2(-4)

Type

Accessory
Shunt release

Special features

Cannot be used in conjunction with NZM...-XR... remote operator.
If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on.
Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms.
Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.

Voltage rating

0.7 - 1.1 x Us

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

Drawings

eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-002.eps

eCAD model

DA-CE-ETN.NZM2_3-XAHIV48AC_DC

Installation instructions

eaton-circuit-breaker-voltage-release-nzm2-3-il012141zu.pdf

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

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

Fitted with:

Early-make auxiliary contact

Frame

NZM2/3

Frequency rating

50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release)

Minimum command time - max

15 ms

Minimum command time - min

10 ms

Number of contacts (normally open contacts)

1

Reaction time

20 ms

Pick-up power consumption (shunt release)

2.5 VA/W

Rated control supply voltage

48 V AC/DC

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

48 V

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

48 V

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

48 V

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

48 V

Suitable for

Off-load switch

Connection type

With bolt connection

Voltage type

AC/DC

Terminal capacity (solid/flexible conductor)

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

Rated control supply voltage (Us) at DC - max

48 V

Rated control supply voltage (Us) at DC - min

48 V

Voltage rating at AC (x Us) - max

1.1

Voltage rating at AC (x Us) - min

.7

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

Time on duty - max

∞

Rated control voltage (relay contacts)

48 V DC
48 V AC



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