Specifications

Eaton 260154

Catalog Number: 260154

Eaton Moeller series NZM - Molded Case Circuit Breaker. Delay unit



General specifications

Product Name
Eaton Moeller series NZM release

Catalog Number
260154

EAN
4015082601546

Product Length/Depth
100 mm

Product Height
114 mm

Product Width
74 mm

Product Weight
0.847 kg

Compliances
IEC
RoHS conform

Powering Business Worldwide

Product specifications

Used with

N(S)1(-4), 2(-4), 3(-4), 4(-4)
50/60 Hz
220 V - 240 V
380 V - 440 V
480 V - 550 V
DC/AC
24 V
NZM1(-4), 2(-4), 3(-4), 4(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4) 50/60 Hz 220 V - 240 V 380 V - 440 V 480 V - 550 V DC/AC 24 V

Type

Accessory Undervoltage release Undervoltage release, off-delayed

Special features

Delay unit for combination with special undervoltage releases. For use with emergency-stop devices in connection with an emergency-stop button. not UL/CSA approved Voltage dips of less than the setting between 0.06 – 16 s do not cause disconnection of the NZM circuit-breaker or N switch-disconnector. Delay time can be set from: 70 ms – 4 s. With additional external capacitor: 30,000 µF 35 V to 8 s, 90,000 µF 35 V to 16 s. A special release is required. Cannot be installed simultaneously with separate NZM...-XHIV early-make auxiliary contact or NZM...-XA... shunt release. Delay unit for separate installation. Fixing: top-hat rail or screws. For other operating voltages use a control transformer.

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.

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_UVU-NZM

Drawings

eaton-circuit-breaker-undervoltage-nzm-delay-unit-dimensions.eps

eCAD model

DA-CE-ETN.UVU-NZM

Installation instructions

eaton-undervoltage-release-off-delayed-nzm-1-2-3-4-il01219005z.pdf

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

Technical data sheets

eaton-nzm-technical-information-sheet

10.2.3.1 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

Frame

NZM1/2/3/4

Number of contacts (normally open contacts)

0

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

550 V

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

24 V

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

550 V

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

24 V

Voltage rating at AC

220 - 550 V AC

Voltage rating at DC

24 V DC

Suitable for

Off-load switch

Connection type

With bolt connection

Delay time

70 - 4000 ms (undervoltage releases, off-delayed)

Voltage type

AC/DC

Delay time with additional external capacitor

8 s (30 mF)

16 s (90 mF)

Rated operation current (Ie)

< 0.5 A

Functions

Delayed

Terminal capacity (solid/flexible conductor)

20 - 14 AWG (1x) at shunt release

20 - 16 AWG (2x) at shunt release

0.5 mm² - 1.5 mm² (2x) at shunt release with ferrule

0.5 mm² - 1.5 mm² (2x) for undervoltage releases, off-delayed

with ferrule

0.5 mm² - 2.5 mm² (1x) at shunt release with ferrule

18 - 14 AWG (1x) for undervoltage releases, off-delayed

0.5 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule

Power consumption

50 VA

Rated control supply voltage (Us) at DC - max

24 V

Rated control supply voltage (Us) at DC - min

24 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

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