Specifications

Eaton 259790

Catalog Number: 259790

Eaton Moeller series NZM - Molded Case Circuit Breaker. Shunt release, 12VAC/DC, +1early N/O, HIVL



General specifications

Product Name
Eaton Moeller series NZM release

Catalog Number
259790

EAN
4015082597900

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

Powering Business Worldwide

Product specifications

Used with

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

10.2.2 Corrosion resistance

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-003.eps

eCAD model

DA-CE-ETN.NZM1-XAHIVL12AC_DC

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

Technical data sheets

eaton-nzm-technical-information-sheet

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

NZM1

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

12 V AC/DC

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

12 V

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

12 V

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

12 V

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

12 V

Suitable for

Off-load switch

Connection type

With 3 m connection cable instead of screw termination

Voltage type

AC

Terminal capacity (solid/flexible conductor)

0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed

with ferrule

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

0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule

0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule

18 - 14 AWG (1x) at shunt release

18 - 14 AWG (2x) at shunt release

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

12 V

Rated control supply voltage (Us) at DC - min

12 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)

12 V AC

12 V DC



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