Eaton 259620

Catalog Number: 259620

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 110-130VAC, +2early N/O, 1, 20L

General specifications



Eaton Moeller series NZM release

EAN

4015082596200

Product Height

66 mm

Product Weight

0.17 kg

Catalog Number

259620

Product Length/Depth

37 mm

Product Width

32 mm

Compliances

UL/CSA

IEC

RoHS conform



UL489

CSA (File No. 22086)

UL listed

UL (Category Control Number DIHS)

CSA-C22.2 No. 5-09

UL (File No. E140305)

IEC60947

CSA certified

CSA (Class No. 1437-01)

CE marking



Product specifications

Used with

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

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 emergencystop 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
Cannot be used in conjunction with NZM...XR... remote operator.
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.

Resources

Brochures

eaton-digital-nzm-brochure-br 013003 en-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_NZM1

Drawings

eaton-circuit-breaker-release-nzm-mccb-dimensions.eps
eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-003.eps

eCAD model

ETN.NZM1-XUHIV20L110-130AC

Installation instructions

eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-xu-xuhiv-il01203002z.pdf

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

Technical data sheets

eaton-nzm-technical-information-sheet

10.11 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

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 separate early-make auxiliary contacts Frame NZM1 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 110 - 130 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - max 130 V Rated control supply voltage (Us) at AC, 50 Hz - min

110 V Rated control supply voltage (Us) at AC, 60 Hz - max 130 V Rated control supply voltage (Us) at AC, 60 Hz - min 110 V Suitable for Off-load switch Connection type With 3 m connection cable instead of screw termination 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 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (2x) 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 (1x) at shunt release 18 - 14 AWG (2x) for undervoltage releases, off-delayed Power consumption 0.8 W (sealing DC) 1.5 VA (sealing AC) 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) 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)

130 V AC

110 V AC



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