

Specifications



Photo is representative

Eaton 259462

Eaton Moeller series NZM Undervoltage release, 24VAC, for NZM1, L

General specifications

PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	259462
MODEL CODE	NZM1-XUL24AC
EAN	4015082594626
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT	66 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.044 kg
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	UL (Category Control Number DIHS) CSA (Class No. 1437-01) CE marking IEC60947 CSA (File No. 22086) CSA certified UL489 UL (File No. E140305) UL listed CSA-C22.2 No. 5-09
GLOBAL CATALOG	259462

Product specifications

USED WITH	NZM1(-4), N(S)1(-4)
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	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	Does not apply, since the entire switchgear needs to

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](#)

[eaton-circuit-breaker-release-nzm-mccb-dimensions.eps](#)

DRAWINGS

[eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-003.eps](#)

ECAD MODEL

[DA-CE-ETN.NZM1-XUL24AC](#)

INSTALLATION INSTRUCTIONS

[eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-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](#)

ASSEMBLIES	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	24 V 50/60 Hz
RATED CONTROL SUPPLY	24 V

VOLTAGE (US) AT AC, 50**Hz - Max****RATED CONTROL SUPPLY****VOLTAGE (US) AT AC, 50** 24 V**Hz - Min****RATED CONTROL SUPPLY****VOLTAGE (US) AT AC, 60** 24 V**Hz - Max****RATED CONTROL SUPPLY****VOLTAGE (US) AT AC, 60** 24 V**Hz - Min****SUITABLE FOR**

Off-load switch

CONNECTION TYPEWith 3 m connection cable
instead of screw
termination**VOLTAGE TYPE**

AC

DROP-OUT VOLTAGE OF**UNDERVOLTAGE RELEASE** 0.7 x Us**AC/DC - MAX****DROP-OUT VOLTAGE OF****UNDERVOLTAGE RELEASE** 0.35 x Us**AC/DC - MIN**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
18 - 14 AWG (1x) for
undervoltage releases, off-
delayed**TERMINAL CAPACITY
(SOLID/FLEXIBLE
CONDUCTOR)**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 (1x) at
shunt release with ferrule
18 - 14 AWG (2x) at shunt
release
18 - 14 AWG (2x) for
undervoltage releases, off-
delayed**TYPE**Accessory Undervoltage
releaseNon-delayed
disconnection of NZM
circuit-breaker or N**SPECIAL FEATURES**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.

POWER CONSUMPTION	0.8 W (sealing DC) 1.5 VA (sealing AC)
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RATED CONTROL SUPPLY

VOLTAGE (US) AT DC - 0 V
MAX

RATED CONTROL SUPPLY

VOLTAGE (US) AT DC - 0 V
MIN

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) 24 V AC

PROJECT NAME:**PROJECT NUMBER:****PREPARED BY:****DATE:****Eaton Corporation plc**

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