

Specifications



Photo is representative



Eaton 259591

Eaton Moeller series NZM Undervoltage release, 208-240VAC, +2early N/O, for NZM2/3, with 2 VHI

General specifications

PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	259591
MODEL CODE	NZM2/3-XUHIV208-240AC
EAN	4015082595913
PRODUCT LENGTH/DEPTH	42 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.101 kg
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	CSA (File No. 22086) CSA (Class No. 1437-01) CSA certified UL489 CSA-C22.2 No. 5-09 UL (File No. E140305) UL (Category Control Number DIHS) IEC60947 UL listed CE marking



Powering Business Worldwide

Delivery programme

CONNECTION	Screw
FITTED WITH:	Two early-make auxiliary contacts
FRAME	NZM2/3
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 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. • Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms • Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release. • Cannot be used in conjunction with NZM...-XR... remote operator.
SUITABLE FOR	Off-load switch
TYPE	• Accessory • Undervoltage

Design verification to IEC/EN 61439

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 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	Does not apply, since the

	release with early-make auxiliary contact
USED WITH	NZM3(-4), N(S)3(-4) NZM2(-4), N(S)2(-4)

AGAINST ELECTRIC SHOCK	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.

Technical data - electrical

**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

**ELECTRIC CONNECTION
TYPE** Screw connection

**MINIMUM COMMAND
TIME - MAX** 15 ms

**MINIMUM COMMAND
TIME - MIN** 10 ms

**PICK-UP POWER
CONSUMPTION AT AC
(UNDervOLTAGE
RELEASE)** 1.5 VA

**PICK-UP POWER
CONSUMPTION AT DC
(UNDervOLTAGE
RELEASE)** 0.8 W

POWER CONSUMPTION 0.8 W (DC)
1.5 VA (AC)

**RATED CONTROL SUPPLY
VOLTAGE** 208 - 240 V 50/60 Hz

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MAX** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MIN** 208 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MAX** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MIN** 208 V

**RATED CONTROL
VOLTAGE (RELAY
CONTACTS)** 240 V AC
208 V AC

REACTION TIME 19 ms

**VOLTAGE TOLERANCE -
MAX** 1.1

**VOLTAGE TOLERANCE -
MIN** 0.85

VOLTAGE TYPE AC

Technical data - mechanical

CONNECTION TYPE With bolt connection

**NUMBER OF CONTACTS
(CHANGE-OVER
CONTACTS)** 0

**NUMBER OF CONTACTS
(NORMALLY CLOSED
CONTACTS)** 0

**NUMBER OF CONTACTS
(NORMALLY OPEN
CONTACTS)** 2

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 emergency-stop devices in connection with an emergency-stop button.
- When the undervoltage 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
- Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
- Cannot be used in conjunction with NZM...-XR... remote

operator.

Technical data - mechanical - terminals

TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)

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

Resources

BROCHURES

[eaton-feerum-the-whole-
grain-solution-success-
story-en-us.pdf](#)

[eaton-digital-nzm-
brochure-br013003en-en-
us.pdf](#)

CATALOGUES

[eaton-digital-nzm-catalog-
ca013003en-en-us.pdf](#)

ECAD MODEL

[ETN.NZM2_3-XUHIV208-
240AC](#)

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](#)

MCAD MODEL

[eaton-int-tripping-acc-
mcad-3d-models-nzm2-3-
xuhiv20-lk.stp](#)

[eaton-int-tripping-acc-
mcad-drawings-nzm2-3-
xuhiv20-lk.dwg](#)

TECHNICAL DATA SHEETS

[eaton-nzm-technical-
information-sheet](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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