

Specifications



Photo is representative



Eaton 259651

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

General specifications

PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	259651
MODEL CODE	NZM2/3-XUHV20208-240AC
EAN	4015082596514
PRODUCT LENGTH/DEPTH	42 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.135 kg
WARRANTY	Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	CSA certified CSA (Class No. 1437-01) CE marking IEC60947 UL489 UL (Category Control Number DIHS) UL listed CSA-C22.2 No. 5-09 UL (File No. E140305) CSA (File No. 22086)
GLOBAL CATALOG	259651

Product specifications

USED WITH	NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-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	Does not apply, since the

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](#)

ECAD MODEL

[ETN.NZM2_3-XUHV20208-240AC](#)

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](#)

TECHNICAL DATA SHEETS

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

PROTECTION OF ASSEMBLIES	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	NZM2/3
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	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
SUITABLE FOR	Off-load switch
CONNECTION TYPE	Contacts 3.23 and 3.24 with separate 3 m connection cables
CONNECTION	Screw
VOLTAGE TYPE	AC
DROP-OUT VOLTAGE OF UNDERTVOLTAGE RELEASE AC/DC - MAX	0.7 x Us
DROP-OUT VOLTAGE OF UNDERTVOLTAGE RELEASE AC/DC - MIN	0.35 x Us
TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	<p>0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule</p> <p>18 - 14 AWG (2x) at shunt release</p> <p>18 - 14 AWG (2x) for undervoltage releases, off-delayed</p> <p>0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule</p> <p>0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule</p> <p>18 - 14 AWG (1x) at shunt release</p> <p>18 - 14 AWG (1x) for undervoltage releases, off-delayed</p> <p>0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule</p>
TYPE	<ul style="list-style-type: none"> Accessory Undervoltage release with early-make auxiliary

contact

- 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
- 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.

SPECIAL FEATURES

POWER CONSUMPTION

1.5 VA (sealing AC)
0.8 W (sealing DC)

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)** 208 V AC

240 V AC

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

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