## Specifications



## Eaton 259539

Eaton Moeller series NZM Undervoltage release, 208-240VAC, +2early N/O, for NZM1

General specifications	
PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	259539
EAN	4015082595395
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT	66 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.084 kg
COMPLIANCES	IEC UL/CSA RoHS conform
CERTIFICATIONS	CSA (File No. 22086) CSA certified CE marking IEC60947 CSA (Class No. 1437-01) UL489 UL (File No. E140305) CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) UL listed
MODEL CODE	NZM1-XUHIV208-240AC



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
CATALOGUES	eaton-digital-nzm-catalog- ca013003en-en-us.pdf
DRAWINGS	eaton-circuit-breaker- release-nzm-mccb- dimensions.eps  eaton-circuit-breaker- undervoltage-nzm-mccb- 3d-drawing-004.eps
ECAD MODEL	ETN.259539.edz
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
MCAD MODEL	DA-CS-nzm1 xu  DA-CD-nzm1 xu
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	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
ELECTRIC CONNECTION TYPE	Screw connection
	Two early-make auxiliary
FITTED WITH:	contacts
FRAME	
	contacts
FRAME MINIMUM COMMAND	NZM1
FRAME MINIMUM COMMAND TIME - MAX MINIMUM COMMAND	NZM1 15 ms
FRAME MINIMUM COMMAND TIME - MAX MINIMUM COMMAND TIME - MIN NUMBER OF CONTACTS (NORMALLY OPEN	NZM1 15 ms 10 ms
FRAME  MINIMUM COMMAND TIME - MAX  MINIMUM COMMAND TIME - MIN  NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	contacts NZM1 15 ms 10 ms
FRAME  MINIMUM COMMAND TIME - MAX  MINIMUM COMMAND TIME - MIN  NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)  REACTION TIME  PICK-UP POWER CONSUMPTION AT AC (UNDERVOLTAGE	contacts NZM1 15 ms 10 ms 2 19 ms
FRAME  MINIMUM COMMAND TIME - MAX  MINIMUM COMMAND TIME - MIN  NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)  REACTION TIME  PICK-UP POWER CONSUMPTION AT AC (UNDERVOLTAGE RELEASE)  PICK-UP POWER CONSUMPTION AT DC (UNDERVOLTAGE	contacts NZM1 15 ms 10 ms 2 19 ms 1.5 VA
FRAME  MINIMUM COMMAND TIME - MAX  MINIMUM COMMAND TIME - MIN  NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)  REACTION TIME  PICK-UP POWER CONSUMPTION AT AC (UNDERVOLTAGE RELEASE)  PICK-UP POWER CONSUMPTION AT DC (UNDERVOLTAGE RELEASE)	contacts NZM1 15 ms 10 ms 2 19 ms 1.5 VA 0.8 W

VOLTAGE	
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	With terminal block on the left-hand switch side
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) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 18 - 14 AWG (2x) at shunt release 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (1x) at shunt release
ТҮРЕ	<ul> <li>Accessory</li> <li>Undervoltage         release with early-         make auxiliary         contact</li> </ul>
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.

## **POWER CONSUMPTION**

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

RATED CONTROL SUPPLY

VOLTAGE (US) AT DC -

MAX

0 V

RATED CONTROL SUPPLY

VOLTAGE (US) AT DC -

0 V

MIN

NUMBER OF CONTACTS

(NORMALLY CLOSED CONTACTS)

0

**NUMBER OF CONTACTS** 

0

(CHANGE-OVER CONTACTS)	
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:	



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