## Specifications

Photo is representative

## Eaton 259473

Eaton Moeller series NZM Undervoltage release, 380-440VAC, for NZM1, L

General specification	ns
PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	259473
MODEL CODE	NZM1-XUL380-440AC
EAN	4015082594732
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT	66 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.044 kg
COMPLIANCES	IEC UL/CSA RoHS conform
CERTIFICATIONS	UL (File No. E140305) IEC60947 CSA certified UL489 CSA (Class No. 1437-01) CSA (File No. 22086) UL (Category Control Number DIHS) CE marking CSA-C22.2 No. 5-09 UL listed
GLOBAL CATALOG	259473



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
DRAWINGS	eaton-circuit-breaker- release-nzm-mccb- dimensions.eps
	eaton-circuit-breaker- undervoltage-nzm-mccb- 3d-drawing-003.eps
ECAD MODEL	DA-CE-ETN.NZM1-XUL380- 440AC
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

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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
FRAME	NZM1
MINIMUM COMMAND TIME - MAX	15 ms
	15 ms
TIME - MAX MINIMUM COMMAND	
TIME - MAX  MINIMUM COMMAND  TIME - MIN  NUMBER OF CONTACTS (NORMALLY OPEN	10 ms
TIME - MAX  MINIMUM COMMAND  TIME - MIN  NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	10 ms
TIME - MAX  MINIMUM COMMAND TIME - MIN  NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)  REACTION TIME  PICK-UP POWER CONSUMPTION AT AC (UNDERVOLTAGE	10 ms 0 19 ms
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	10 ms  0  19 ms  1.5 VA
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)  VOLTAGE TOLERANCE -	10 ms 0 19 ms 1.5 VA 0.8 W
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)  VOLTAGE TOLERANCE - MAX  VOLTAGE TOLERANCE -	10 ms  0  19 ms  1.5 VA  0.8 W
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)  VOLTAGE TOLERANCE - MAX  VOLTAGE TOLERANCE - MIN  RATED CONTROL SUPPLY	10 ms  0  19 ms  1.5 VA  0.8 W  1.1

VOLTAGE (US) AT AC, 50 HZ - MAX	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	380 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	440 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	380 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 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (1x) at shunt release 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule
ТҮРЕ	Accessory Undervoltage release
SPECIAL FEATURES	Non-delayed disconnection of NZM circuit-breaker or N 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 undervoltage 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)

**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 0

**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**)

380 V AC 440 V AC

**PROJECT NAME:** 

**PROJECT NUMBER:** 

PREPARED BY:

DATE:



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