Specifications



Photo is representative

Eaton 259458

Eaton Moeller series NZM Undervoltage release, 110-130VDC, for NZM1

General specifications	
PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	259458
MODEL CODE	NZM1-XU110-130DC
EAN	4015082594589
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	CSA (Class No. 1437-01) UL (Category Control Number DIHS) UL489 UL (File No. E140305) CE marking IEC60947 CSA certified CSA (File No. 22086) CSA-C22.2 No. 5-09 UL listed



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.259458.edz
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
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	ls 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	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
	10 ms 0
TIME - MIN NUMBER OF CONTACTS (NORMALLY OPEN	
TIME - MIN NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0
TIME - MIN NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS) REACTION TIME PICK-UP POWER CONSUMPTION AT AC (UNDERVOLTAGE	0 19 ms
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	0 19 ms 1.5 VA
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 -	0 19 ms 1.5 VA
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 -	0 19 ms 1.5 VA 0.8 W
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	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	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 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 (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (1x) at shunt release 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release 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-MAX

130 V

RATED CONTROL SUPPLY

VOLTAGE (US) AT DC-

110 V

MIN

NUMBER OF CONTACTS (NORMALLY CLOSED 0

CONTACTS)

NUMBER OF CONTACTS

(CHANGE-OVER

CONTACTS)

0

UNDELAYED SHORT-

0 A **CIRCUIT RELEASE - MIN**

UNDELAYED SHORT-

CIRCUIT RELEASE - MAX

0 A

RATED CONTROL VOLTAGE (RELAY CONTACTS)

110 V DC 130 V DC

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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