## Specifications



Photo is representative

## Eaton 259553

Eaton Moeller series NZM Undervoltage release, 110-130VDC, +2early N/O, for NZM1

General specifications	
PRODUCT NAME	aton Moeller series NZM Indervoltage release
CATALOG NUMBER 2	259553
MODEL CODE	NZM1-XUHIV110-130DC
EAN 4	015082595531
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT 6	66 mm
PRODUCT WIDTH 3	32 mm
PRODUCT WEIGHT 0	).056 kg
COMPLIANCES	JL/CSA EC RoHS conform
CERTIFICATIONS N	JL listed CSA certified CSA (Class No. 1437-01) JL489 JL (Category Control Number DIHS) CE marking JL (File No. E140305) CSA (File No. 22086) EC60947 CSA-C22.2 No. 5-09
GLOBAL CATALOG 2	259553



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-004.eps
ECAD MODEL	ETN.259553.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	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	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 early-make auxiliary 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	contacts 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)  VOLTAGE TOLERANCE -	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	0 V
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	DC
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 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 (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) at shunt release 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed
ТҮРЕ	Accessory Undervoltage release Undervoltage release with early-make auxiliary contact
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 NZMXHIV early-make auxiliary contact or NZMXA 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 - MIN	110 V
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

130 V DC

110 V DC

RATED CONTROL

**VOLTAGE (RELAY** 

CONTACTS)

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



## **Eaton Corporation plc**

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