Specifications



Eaton 259583

Eaton Moeller series NZM Undervoltage release, 24VAC, +2early N/O, for NZM2/3

General specification	าร
PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	259583
MODEL CODE	NZM2/3-XUHIV24AC
EAN	4015082595838
PRODUCT LENGTH/DEPTH	42 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.102 kg
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	CSA (Class No. 1437-01) UL489 IEC60947 UL (File No. E140305) UL listed CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) CSA certified CSA (File No. 22086) CE marking
GLOBAL CATALOG	259583



Product specification	S
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-XUHIV24AC
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	ls 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	ls the panel builder's responsibility.
ELECTRIC CONNECTION TYPE	Screw connection
FITTED WITH:	Two 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 RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN SUITABLE FOR CONNECTION TYPE VOLTAGE TYPE DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MAX DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MIN TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	24 V 24 V 24 V 24 V Off-load switch With bolt connection AC 0.7 x Us 0.35 x Us 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases,
VOLTAGE (US) AT AC, 50 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN SUITABLE FOR CONNECTION TYPE VOLTAGE TYPE DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MAX DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MIN	24 V 24 V 24 V Off-load switch With bolt connection AC 0.7 x Us 0.35 x Us 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x)
VOLTAGE (US) AT AC, 50 HZ - MIN RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN SUITABLE FOR CONNECTION TYPE VOLTAGE TYPE DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MAX DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MIN TERMINAL CAPACITY (SOLID/FLEXIBLE	24 V 24 V Off-load switch With bolt connection AC 0.7 x Us 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x)
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DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MAX DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MIN TERMINAL CAPACITY (SOLID/FLEXIBLE	0.7 x Us 0.35 x Us 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x)
UNDERVOLTAGE RELEASE AC/DC - MAX DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MIN TERMINAL CAPACITY (SOLID/FLEXIBLE	0.35 x Us 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x)
UNDERVOLTAGE RELEASE AC/DC - MIN TERMINAL CAPACITY (SOLID/FLEXIBLE	0.75 mm ² - 2.5 mm ² (1x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x)
(SOLID/FLEXIBLE	shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x)
	off-delayed with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (1x) at shunt release
ТҮРЕ	 Accessory 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 NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
- Cannot be used in conjunction with NZM...-XR... remote operator.

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

0

(NORMALLY CLOSED 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)	24 V AC

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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