

# Specifications



Photo is representative

## Eaton 259475

Eaton Moeller series NZM Undervoltage release, 480-525VAC, for NZM1, L

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series NZM Undervoltage release
<b>CATALOG NUMBER</b>	259475
<b>MODEL CODE</b>	NZM1-XUL480-525AC
<b>EAN</b>	4015082594756
<b>PRODUCT LENGTH/DEPTH</b>	37 mm
<b>PRODUCT HEIGHT</b>	66 mm
<b>PRODUCT WIDTH</b>	32 mm
<b>PRODUCT WEIGHT</b>	0.044 kg
<b>COMPLIANCES</b>	UL/CSA IEC RoHS conform
<b>CERTIFICATIONS</b>	CE marking IEC60947 UL489 CSA (File No. 22086) CSA certified UL (File No. E140305) UL listed CSA-C22.2 No. 5-09 CSA (Class No. 1437-01) UL (Category Control Number DIHS)
<b>GLOBAL CATALOG</b>	259475

## Product specifications

<b>USED WITH</b>	NZM1(-4), N(S)1(-4)
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF</b>	Does not apply, since the entire switchgear needs to

## Resources

<b>BROCHURES</b>	<a href="#">eaton-digital-nzm-brochure-br013003en-en-us.pdf</a> <a href="#">eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf</a>
<b>CATALOGS</b>	<a href="#">eaton-digital-nzm-catalog-ca013003en-en-us.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-circuit-breaker-release-nzm-mccb-dimensions.eps</a> <a href="#">eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-003.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.NZM1-XUL480-525AC</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-xu-xuhiv-il01203002z.pdf</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">The new digital NZM Range</a> <a href="#">Introduction of the new digital circuit breaker NZM</a>
<b>TECHNICAL DATA SHEETS</b>	<a href="#">eaton-nzm-technical-information-sheet</a>

<b>ASSEMBLIES</b>	be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>ELECTRIC CONNECTION TYPE</b>	Screw connection
<b>FRAME</b>	NZM1
<b>MINIMUM COMMAND TIME - MAX</b>	15 ms
<b>MINIMUM COMMAND TIME - MIN</b>	10 ms
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>REACTION TIME</b>	19 ms
<b>PICK-UP POWER CONSUMPTION AT AC (UNDervOLTAGE RELEASE)</b>	1.5 VA
<b>PICK-UP POWER CONSUMPTION AT DC (UNDervOLTAGE RELEASE)</b>	0.8 W
<b>VOLTAGE TOLERANCE - MAX</b>	1.1
<b>VOLTAGE TOLERANCE - MIN</b>	.85
<b>RATED CONTROL SUPPLY VOLTAGE</b>	480 - 525 V 50/60 Hz
<b>RATED CONTROL SUPPLY</b>	525 V

<b>VOLTAGE (US) AT AC, 50 HZ - MAX</b>	
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	480 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	525 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	480 V
<b>SUITABLE FOR</b>	Off-load switch
<b>CONNECTION TYPE</b>	With 3 m connection cable instead of screw termination
<b>VOLTAGE TYPE</b>	AC
<b>DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MAX</b>	0.7 x Us
<b>DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MIN</b>	0.35 x Us
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)</b>	<p>0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) at shunt release with ferrule  18 - 14 AWG (2x) at shunt release  0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) for undervoltage releases, off-delayed with ferrule  18 - 14 AWG (1x) at shunt release  18 - 14 AWG (2x) for undervoltage releases, off-delayed  0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) at shunt release with ferrule  0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) for undervoltage releases, off-delayed with ferrule  18 - 14 AWG (1x) for undervoltage releases, off-delayed</p>
<b>TYPE</b>	Accessory Undervoltage release
<b>SPECIAL FEATURES</b>	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

	<p>an emergency-stop button. When the under-voltage 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.</p>
<b>POWER CONSUMPTION</b>	<p>0.8 W (sealing DC) 1.5 VA (sealing AC)</p>
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	0 V
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>UNDELAYED SHORT-CIRCUIT RELEASE - MIN</b>	0 A
<b>UNDELAYED SHORT-CIRCUIT RELEASE - MAX</b>	0 A
<b>RATED CONTROL VOLTAGE (RELAY CONTACTS)</b>	<p>480 V AC 525 V AC</p>

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE: