



00000

## Eaton 259630

Eaton Moeller series NZM Undervoltage release, 24 V DC, +2early N/O, for NZM1, 20L

0000

<b>PRODUCT NAME</b>	Eaton Moeller series NZM Undervoltage release
<b>CATALOG NUMBER</b>	259630
<b>PRODUCT LENGTH/DEPTH</b>	37 mm
<b>PRODUCT HEIGHT</b>	66 mm
<b>PRODUCT WIDTH</b>	32 mm
<b>PRODUCT WEIGHT</b>	0.173 kg
<b>COMPLIANCES</b>	UL/CSA IEC RoHS conform
<b>CERTIFICATIONS</b>	UL489 IEC60947 CE marking UL (File No. E140305) CSA (File No. 22086) UL (Category Control Number DIHS) CSA (Class No. 1437-01) CSA-C22.2 No. 5-09 CSA certified UL listed

0000

**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 ASSEMBLIES**

Does not apply, since the entire switchgear needs to be evaluated.

**10.4 CLEARANCES AND CREEPAGE DISTANCES**

Meets the product standard's requirements.

00

00000

[eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-xu-xuhiv-il01203002z.pdf](http://eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-xu-xuhiv-il01203002z.pdf)

<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>FITTED WITH:</b>	Two separate early-make auxiliary contacts
<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>	2
<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>	0.85
<b>RATED CONTROL SUPPLY VOLTAGE</b>	24 V DC
<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</b>	0.7 x Us
<b>AC/DC - MAX</b>	
<b>DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE</b>	0.35 x Us
<b>AC/DC - MIN</b>	
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)</b>	<p>0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) at shunt release with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed</p> <p>0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) at shunt release</p> <p>18 - 14 AWG (2x) for undervoltage releases, off-delayed</p> <p>0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) at shunt release with ferrule 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) at shunt release</p>
<b>TYPE</b>	Undervoltage release with early-make auxiliary contact
<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"> <li>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.</li> <li>For use with emergency-stop devices in connection with an emergency-stop button.</li> <li>When the undervoltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on.</li> <li>Early make of</li> </ul>

	auxiliary contacts on switching on and off (manual operation): approx. 20 ms <ul style="list-style-type: none"> <li>• Cannot be used in  conjunction with  NZM...-XR... remote  operator.</li> </ul>
<b>POWER CONSUMPTION</b>	0.8 W (sealing DC) 1.5 VA (sealing AC)
<b>RATED CONTROL SUPPLY</b>	
<b>VOLTAGE (US) AT DC - MAX</b>	24 V
<b>RATED CONTROL SUPPLY</b>	
<b>VOLTAGE (US) AT DC - MIN</b>	24 V
<b>NUMBER OF CONTACTS</b>	
<b>(NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF CONTACTS</b>	
<b>(CHANGE-OVER CONTACTS)</b>	0
<b>RATED CONTROL</b>	
<b>VOLTAGE (RELAY CONTACTS)</b>	24 V DC

□□□□:

□□□□:

□□□:

□□: