



## Eaton 274143

Eaton Moeller series NZM Shunt release, 230VAC, +1early N/O, for mesh network, size 4



<b>PRODUCT NAME</b>	Eaton Moeller series NZM Shunt release
<b>CATALOG NUMBER</b>	274143
<b>PRODUCT LENGTH/DEPTH</b>	107 mm
<b>PRODUCT HEIGHT</b>	51 mm
<b>PRODUCT WIDTH</b>	64 mm
<b>PRODUCT WEIGHT</b>	0.218 kg
<b>COMPLIANCES</b>	IEC RoHS conform



Powering Business Worldwide

**USED WITH**

NZM4(-4), N(S)4(-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.

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[eaton-circuit-breaker-voltage-release-nzm4-il012143zu.pdf](#)

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[eaton-circuit-breaker-release-nzm-shunt-release-wiring-diagram-002.eps](#)

<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>	Early-make auxiliary contact
<b>FRAME</b>	NZM4
<b>FREQUENCY RATING</b>	50 Hz / 60 Hz (shunt release)
<b>MINIMUM COMMAND TIME - MAX</b>	15 ms
<b>MINIMUM COMMAND TIME - MIN</b>	10 ms
<b>CURRENT CONSUMPTION - MAX</b>	0.5 A
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>REACTION TIME</b>	20 ms
<b>RATED CONTROL SUPPLY VOLTAGE</b>	230 V AC
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	230 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	230 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	230 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	230 V
<b>SUITABLE FOR</b>	Off-load switch

<b>VOLTAGE TYPE</b>	AC
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**TERMINAL CAPACITY  
(SOLID/FLEXIBLE  
CONDUCTOR)**

18 - 14 AWG (2x) for undervoltage releases, off-delayed  
 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) at shunt release with ferrule  
 18 - 14 AWG (1x) at shunt release  
 18 - 14 AWG (2x) at shunt release  
 18 - 14 AWG (1x) for undervoltage releases, off-delayed  
 0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x) for undervoltage releases, off-delayed with ferrule  
 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> (2x) for undervoltage releases, off-delayed with ferrule

**TYPE**

- Accessory
- Shunt release

**SPECIAL FEATURES**

- Shunt release for mesh network circuit-breakers in conjunction with NZM-XZM capacitor unit
- Only for short-time operation with a maximum on-time = 1 s
- Operating range 10 - 110 % Us
- not UL/CSA approved
- Rated control voltage 230 V AC
- Cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
- Cannot be used in conjunction with NZM...-XR... remote operator.
- Intermittent operation guaranteed by series connection of an M22-(C)K10

- make contact.
- Early-make time of integrated auxiliary contact upon switching on (manual operation): approx. 90 ms.

<b>VOLTAGE RATING AT AC (X US) - MAX</b>	1.1
<b>VOLTAGE RATING AT AC (X US) - MIN</b>	0.1
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>TIME ON DUTY - MAX</b>	1000 ms
<b>RATED CONTROL VOLTAGE (RELAY CONTACTS)</b>	230 V AC

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□□□□ Eaton House  
 30 Pembroke Road  
 Dublin 4, □□□  
 Eaton.com

