

# Specifications

## Eaton 259792



Photo is representative

Eaton Moeller series NZM Shunt release, 24VAC/DC, +1early N/O, for NZM1, L

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series NZM Shunt release
<b>CATALOG NUMBER</b>	259792
<b>MODEL CODE</b>	NZM1-XAHIVL24AC/DC
<b>EAN</b>	4015082597924
<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>	IEC UL/CSA RoHS conform
<b>CERTIFICATIONS</b>	CSA certified UL (Category Control Number DIHS) CSA-C22.2 No. 5-09 CSA (File No. 22086) IEC60947 UL listed UL (File No. E140305) CSA (Class No. 1437-01) UL489 CE marking

## Product specifications

<b>USED WITH</b>	NZM1(-4), N(S)1(-4)
<b>VOLTAGE RATING</b>	0.7 - 1.1 x Us
<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</b>	Does not apply, since the

## Resources

### BROCHURES

[eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf](#)

### CATALOGUES

[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-003.eps](#)

### ECAD MODEL

[DA-CE-ETN.NZM1-XAHIVL24AC\\_DC](#)

### INSTALLATION INSTRUCTIONS

[eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-xuhiv-il01203002z.pdf](#)

### INSTALLATION VIDEOS

[The new digital NZM Range](#)

[Introduction of the new digital circuit breaker NZM](#)

### TECHNICAL DATA SHEETS

[eaton-nzm-technical-information-sheet](#)

<b>PROTECTION OF ASSEMBLIES</b>	entire switchgear needs to 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>FITTED WITH:</b>	Early-make auxiliary contact
<b>FRAME</b>	NZM1
<b>FREQUENCY RATING</b>	50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release)
<b>MINIMUM COMMAND TIME - MAX</b>	15 ms
<b>MINIMUM COMMAND TIME - MIN</b>	10 ms
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>REACTION TIME</b>	20 ms
<b>PICK-UP POWER CONSUMPTION (SHUNT RELEASE)</b>	2.5 VA/W
<b>RATED CONTROL SUPPLY VOLTAGE</b>	24 V AC/DC
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	24 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50</b>	24 V

**Hz - Min****RATED CONTROL SUPPLY****VOLTAGE (US) AT AC, 60** 24 V**Hz - Max****RATED CONTROL SUPPLY****VOLTAGE (US) AT AC, 60** 24 V**Hz - Min****SUITABLE FOR**

Off-load switch

**CONNECTION TYPE**With 3 m connection cable  
instead of screw  
termination**VOLTAGE TYPE**

AC

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

**TERMINAL CAPACITY  
(SOLID/FLEXIBLE  
CONDUCTOR)****TYPE**

- Accessory
- Shunt release

**SPECIAL FEATURES**

- Cannot be used in conjunction with NZM...-XR... remote operator.
- If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on.
- Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms.
- Shunt releases

cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.

**RATED CONTROL SUPPLY**

**VOLTAGE (US) AT DC -** 24 V  
**MAX**

**RATED CONTROL SUPPLY**

**VOLTAGE (US) AT DC -** 24 V  
**MIN**

**VOLTAGE RATING AT AC  
(X US) - MAX**

1.1

**VOLTAGE RATING AT AC  
(X US) - MIN**

.7

**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

**TIME ON DUTY - MAX**

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**RATED CONTROL**

**VOLTAGE (RELAY  
CONTACTS)** 24 V DC  
24 V AC

**PROJECT NAME:****PROJECT NUMBER:****PREPARED BY:****DATE:****Eaton Corporation plc**

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