

# Eaton 259810

Catalog Number: 259810

Eaton Moeller series NZM - Molded Case Circuit Breaker. Shunt release, 24VAC/DC, +1early N/O, 2/3



### General specifications

Product Name	Catalog Number
Eaton Moeller series NZM release	259810
EAN	Product Length/Depth
4015082598105	42 mm
Product Height	Product Width
90 mm	30 mm
Product Weight	Compliances
0.1 kg	IEC
	UL/CSA
	RoHS conform

### Certifications

- UL (Category Control Number DIHS)
- CSA-C22.2 No. 5-09
- CE marking
- UL489
- UL listed
- CSA certified
- CSA (Class No. 1437-01)
- UL (File No. E140305)
- CSA (File No. 22086)
- IEC60947

## Product specifications

### Used with

NZM3(-4), N(S)3(-4)

NZM2(-4), N(S)2(-4)

### 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.

### Voltage rating

0.7 - 1.1 x Us

#### 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.

## 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](#)

### Declarations of conformity

[DA-DC-03\\_NZM2](#)

### Drawings

[eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-002.eps](#)

### eCAD model

[DA-CE-ETN.NZM2\\_3-XAHIV24AC\\_DC](#)

### Installation instructions

[eaton-circuit-breaker-voltage-release-nzm2-3-il012141zu.pdf](#)

### Installation videos

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

[The new digital NZM Range](#)

### Technical data sheets

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

#### 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.

#### 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

Is the panel builder's responsibility.

#### 10.8 Connections for external conductors

Is the panel builder's responsibility.

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### Electric connection type

Screw connection

#### Fitted with:

Early-make auxiliary contact

#### Frame

NZM2/3

#### Frequency rating

50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release)

#### Minimum command time - max

15 ms

#### Minimum command time - min

10 ms

#### Number of contacts (normally open contacts)

1

#### Reaction time

20 ms

#### Pick-up power consumption (shunt release)

2.5 VA/W

#### Rated control supply voltage

24 V AC/DC

#### Rated control supply voltage (Us) at AC, 50 Hz - max

24 V

#### Rated control supply voltage (Us) at AC, 50 Hz - min

24 V

#### Rated control supply voltage (Us) at AC, 60 Hz - max

24 V

#### Rated control supply voltage (Us) at AC, 60 Hz - min

24 V

#### Suitable for

Off-load switch

#### Connection type

With bolt connection

#### Voltage type

AC/DC

#### Terminal capacity (solid/flexible conductor)

0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (2x) for undervoltage releases, off-delayed  
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

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

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

18 - 14 AWG (1x) at shunt release

Rated control supply voltage (Us) at DC - max

24 V

Rated control supply voltage (Us) at DC - min

24 V

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

∞

Rated control voltage (relay contacts)

24 V DC

24 V AC



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Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
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