Specifications

# Eaton 259780

## Catalog Number: 259780

Eaton Moeller series NZM - Molded Case Circuit Breaker. Shunt release, 110-130VAC/DC, +1early N/O, HIV




### General specifications

**Product Name**
Eaton Moeller series NZM release

**Catalog Number**
259780

**EAN**
4015082597801

**Product Length/Depth**
37 mm

**Product Height**
66 mm

**Product Width**
32 mm

**Product Weight**
0.044 kg

**Compliances**
UL/CSA
IEC
RoHS conform

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

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## Product specifications

### Used with

NZM1(-4), N(S)1(-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.

### 10.2.2 Corrosion resistance

## Resources

### Brochures

eaton-digital-nzm-brochure-br013003en-en-us.pdf

eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf

### Catalogs

eaton-digital-nzm-catalog-ca013003en-en-us.pdf

### Declarations of conformity

DA-DC-03_NZM1

### Drawings

eaton-circuit-breaker-release-nzm-mccb-dimensions.eps

eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-004.eps

### eCAD model

ETN.259780.edz

### Installation instructions

eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-xu-xuhiv-il01203002z.pdf

### Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

### mCAD model

DA-CD-nzm1_xu

DA-CS-nzm1_xu

### Technical data sheets

eaton-nzm-technical-information-sheet

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

NZM1

### 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

110 - 130 V AC/DC

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

130 V

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

110 V

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

130 V

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

110 V

### Suitable for

Power circuit breaker
Off-load switch

### Connection type

With terminal block on the left-hand switch side

### Voltage type

AC

### Terminal capacity (solid/flexible conductor)

18 - 14 AWG (1x) at shunt release
18 - 14 AWG (1x) for undervoltage releases, off-delayed
0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule
0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule
18 - 14 AWG (2x) at shunt release
18 - 14 AWG (2x) for undervoltage releases, off-delayed
0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule
0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule

### Rated control supply voltage (Us) at DC - max

130 V

### Rated control supply voltage (Us) at DC - min

110 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)

110 V DC
130 V AC
130 V DC
110 V AC




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