

# Eaton 189784

Catalog Number: 189784

Eaton Moeller series NZM - Molded Case Circuit Breaker.  
Undervoltage release for NZM2/3, 1 early-make auxiliary contact,  
2NO, 110-130DC, Push-in terminals

## General specifications



|                                  |                      |
|----------------------------------|----------------------|
| Product Name                     | Catalog Number       |
| Eaton Moeller series NZM release | 189784               |
| EAN                              | Product Length/Depth |
| 4015081877799                    | 115 mm               |
| Product Height                   | Product Width        |
| 65 mm                            | 75 mm                |
| Product Weight                   | Compliances          |
| 0.08 kg                          | IEC                  |
|                                  | UL/CSA               |
|                                  | RoHS conform         |

## Product specifications

### Used with

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

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

### Type

Accessory Undervoltage release Undervoltage release with early-make auxiliary contact

### Special features

For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications. Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70% Us. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms (NZM2/3) and 90 ms (NZM4). Undervoltage release modules cannot be installed simultaneously with early-make contact NZM...-XHIV, shunt release NZM...-XA... or relays modules NZM...-X2A...

### 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

## 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](#)

### Installation instructions

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

### Installation videos

[The new digital NZM Range](#)

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

### Technical data sheets

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

### Wiring diagrams

[eaton-circuit-breaker-nzm-mccb-wiring-diagram.eps](#)

#### 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

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

1

Rated control supply voltage

110 - 130 V DC

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

0 V

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

0 V

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

0 V

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

0 V

Suitable for

Motor safety switch

Off-load switch

Connection type

With push in terminal

Voltage type

AC

Rated control supply voltage (Us) at DC - max

130 V

Rated control supply voltage (Us) at DC - min

110 V

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



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Dublin 4, Ireland  
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