

# Eaton 103044

Catalog Number: 103044

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 26A, N2-S26-CNA



### General specifications

#### Product Name

Eaton Moeller series NZM molded case  
circuit breaker magnetic

#### Catalog Number

103044

#### EAN

4015081028832

#### Product Length/Depth

149 mm

#### Product Height

195 mm

#### Product Width

105 mm

#### Product Weight

2.345 kg

#### Compliances

RoHS conform

#### Certifications

UL (Category Control Number DKPU2)

CSA certified

UL listed

CSA-C22.2 No. 5-09

UL (File No. E31593)

UL 489

Specially designed for North America

CSA (File No. 22086)

CSA (Class No. 1432-01)

UL/CSA

## Product specifications

### Type

Circuit breaker

### Special features

Rated current = rated  
uninterrupted current: 26 A  
This circuit-breaker is only  
allowed to be used for  
UL/CSA applications.  
Motor protection in  
conjunction with contactor  
and overload relay  
With short-circuit release  
Without overload release Ir

### Application

Branch circuits, feeder circuits

### Amperage Rating

26 A

### Voltage rating

690 V - 690 V

### Features

Motor drive optional  
Protection unit

#### 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

## 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](#)

### Characteristic curve

[eaton-circuit-breaker-let-through-current-nzm-mccb-characteristic-curve-004.eps](#)  
[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-036.eps](#)  
[eaton-circuit-breaker-nzm-mccb-characteristic-curve-052.eps](#)

### Declarations of conformity

[DA-DC-03\\_N2](#)

### Drawings

[eaton-circuit-breaker-nzm-mccb-dimensions-019.eps](#)  
[eaton-circuit-breaker-switch-nzm-mccb-dimensions-017.eps](#)  
[eaton-circuit-breaker-switch-nzm-mccb-3d-drawing.eps](#)

### Installation videos

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

### mCAD model

[DA-CD-nzm2\\_3p](#)  
[DA-CS-nzm2\\_3p](#)

### Technical data sheets

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

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.

#### Pollution degree

#### Mounting Method

Fixed

DIN rail (top hat rail) mounting optional

Built-in device fixed built-in technique

#### Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

#### Equipment heat dissipation, current-dependent

1.58 W

#### Isolation

300 V AC (between the auxiliary contacts)

500 V AC (between auxiliary contacts and main contacts)

#### Ambient operating temperature - max

70 °C

#### Ambient operating temperature - min

-25 °C

#### Ambient storage temperature - max

70 °C

#### Ambient storage temperature - min

40 °C

#### Number of auxiliary contacts (change-over contacts)

0

#### Number of auxiliary contacts (normally closed contacts)

0

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

0

#### Protection against direct contact

Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part

110

#### Degree of protection

IP20

IP20 (basic degree of protection, in the operating controls area)

#### Direction of incoming supply

As required

#### Electrical connection type of main circuit

Screw connection

#### Lifespan, mechanical

20000 operations

#### Overvoltage category

III

#### Degree of protection (IP), front side

IP40 (with insulating surround)

IP66 (with door coupling rotary handle)

#### Degree of protection (terminations)

IP00 (terminations, phase isolator and strip terminal)

IP10 (tunnel terminal)

#### Number of poles

Three-pole

#### Terminal capacity (copper strip)

Min. 2 segments of 16 mm x 0.8 mm at rear-side connection  
(punched)

Min. 2 segments of 9 mm x 0.8 mm at box terminal

Max. 10 segments of 16 mm x 0.8 mm at rear-side connection  
(punched)

Max. 10 segments of 16 mm x 0.8 mm at box terminal

#### Lifespan, electrical

10000 operations at 400 V AC-1

6500 operations at 400 V AC-3

6500 operations at 415 V AC-3

7500 operations at 690 V AC-1

5000 operations at 690 V AC-3

#### Functions

Short-circuit protection

#### Shock resistance

20 g (half-sinusoidal shock 20 ms)

#### Position of connection for main current circuit

Front side

#### Rated operational current for specified heat dissipation ( $I_n$ )

26 A

#### Power loss

1.6 W

#### Release system

Thermomagnetic release

#### Short-circuit total breaktime

< 10 ms

#### Rated short-time withstand current ( $t = 0.3$ s)

1.9 kA

Rated short-time withstand current ( $t = 1 \text{ s}$ )

1.9 kA

Short-circuit release non-delayed setting - max

338 A

Short-circuit release non-delayed setting - min

208 A

Terminal capacity (control cable)

14 mm<sup>2</sup> - 18 mm<sup>2</sup> (1x)

16 mm<sup>2</sup> - 18 mm<sup>2</sup> (2x)

Terminal capacity (copper busbar)

Min. 16 mm x 5 mm direct at switch rear-side connection

M8 at rear-side screw connection

Max. 20 mm x 5 mm direct at switch rear-side connection

Terminal capacity (copper solid conductor/cable)

6 mm<sup>2</sup> (1x) at tunnel terminal

6 mm<sup>2</sup> - 11 mm<sup>2</sup> (1x) direct at switch rear-side connection

6 mm<sup>2</sup> - 12 mm<sup>2</sup> (1x) at box terminal

Terminal capacity (aluminum solid conductor/cable)

16 mm<sup>2</sup> (1x) at tunnel terminal

Terminal capacity (copper stranded conductor/cable)

4 mm<sup>2</sup> - 350 mm<sup>2</sup> (1x) at tunnel terminal

4 mm<sup>2</sup> - 350 mm<sup>2</sup> (1x) at box terminal

4 mm<sup>2</sup> - 3/0 mm<sup>2</sup> (1x) direct at switch rear-side connection

Handle type

Rocker lever

Short delay current setting (I<sub>sd</sub>) - max

0 A

Short delay current setting (I<sub>sd</sub>) - min

0 A

Instantaneous current setting (I<sub>i</sub>) - max

13 A

Instantaneous current setting (I<sub>i</sub>) - min

8 A

Number of operations per hour - max

120

Overload current setting (I<sub>r</sub>) - max

0 A

Overload current setting (I<sub>r</sub>) - min

0 A

Rated short-circuit breaking capacity  $I_{cs}$  (IEC/EN 60947) at  
400/415 V, 50/60 Hz

50 kA

Standard terminals

Screw terminal

Rated operating voltage  $U_e$  (UL) - max

600Y/347 V, 480 V

Rated impulse withstand voltage ( $U_{imp}$ ) at auxiliary contacts

6000 V

Rated impulse withstand voltage ( $U_{imp}$ ) at main contacts

8000 V

Rated insulation voltage ( $U_i$ )

1000 V AC



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