

# Eaton 265847

Catalog Number: 265847

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 125A, B, frame2, 4-A125



General specifications

Product Name	Catalog Number
Eaton Moeller series NZM molded case circuit breaker thermo-magnetic	265847
	EAN
	4015082658472
Product Length/Depth	Product Height
149 mm	184 mm
Product Width	Product Weight
140 mm	3 kg
Compliances	Certifications
RoHS conform	IEC/EN 60947

## Product specifications

### Special features

Rated current = rated  
uninterrupted current: 125 A  
Set value in neutral  
conductor is synchronous  
with set value  $I_r$  of main  
pole.

### Application

Use in unearthed supply systems at 440 V

### Amperage Rating

125 A

### Voltage rating

440 V - 440 V

### Features

Protection unit  
Motor drive optional

#### 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 elect. effects

## 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](#)

### Characteristic curve

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-030.eps](#)  
[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-034.eps](#)

### Drawings

[eaton-circuit-breaker-nzm-mccb-dimensions-035.eps](#)  
[eaton-circuit-breaker-switch-nzm-mccb-dimensions-017.eps](#)

### eCAD model

[ETN.265847.edz](#)

### Installation videos

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

### mCAD model

[DA-CD-nzm2\\_4p](#)  
[DA-CS-nzm2\\_4p](#)

### Technical data sheets

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

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.

#### Mounting Method

Built-in device fixed built-in technique

DIN rail (top hat rail) mounting optional

Fixed

#### Climatic proofing

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

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

#### Equipment heat dissipation, current-dependent

27.61 W

#### Isolation

500 V AC (between auxiliary contacts and main contacts)

300 V AC (between the auxiliary 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

#### Electrical connection type of main circuit

Screw connection

#### Current rating of neutral conductor

200% of phase conductor

#### Number of poles

Four-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 box terminal

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

#### Position of connection for main current circuit

Front side

#### Power loss

27.6 W

#### Short-circuit release non-delayed setting - max

1250 A

#### Short-circuit release non-delayed setting - min

750 A

#### Terminal capacity (control cable)

0.75 mm<sup>2</sup> - 1.5 mm<sup>2</sup> (2x)

0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (1x)

#### Terminal capacity (copper busbar)

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

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

M8 at rear-side screw connection

#### Terminal capacity (copper solid conductor/cable)

4 mm<sup>2</sup> - 16 mm<sup>2</sup> (1x) direct at switch rear-side connection

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

4 mm<sup>2</sup> - 16 mm<sup>2</sup> (2x) at box terminal

4 mm<sup>2</sup> - 16 mm<sup>2</sup> (2x) direct at switch rear-side connection

4 mm<sup>2</sup> - 16 mm<sup>2</sup> (1x) at box terminal

#### Terminal capacity (aluminum solid conductor/cable)

10 mm<sup>2</sup> - 16 mm<sup>2</sup> (1x) direct at switch rear-side connection

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

10 mm<sup>2</sup> - 16 mm<sup>2</sup> (2x) direct at switch rear-side connection

#### Terminal capacity (copper stranded conductor/cable)

25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) direct at switch rear-side connection

25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at box terminal

25 mm<sup>2</sup> - 70 mm<sup>2</sup> (2x) at box terminal

25 mm<sup>2</sup> - 70 mm<sup>2</sup> (2x) direct at switch rear-side connection

25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at 1-hole tunnel terminal

#### Terminal capacity (aluminum stranded conductor/cable)

25 mm<sup>2</sup> - 50 mm<sup>2</sup> (1x) direct at switch rear-side connection

25 mm<sup>2</sup> - 50 mm<sup>2</sup> (2x) direct at switch rear-side connection

25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at tunnel terminal

#### 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

10 A

Instantaneous current setting (Ii) - min

6 A

Overload current setting (Ir) - max

125 A

Overload current setting (Ir) - min

100 A

Overload current setting (Ir)

100 A - 125 A

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at  
400/415 V, 50/60 Hz

25 kA

Standard terminals

Screw terminal



Eaton Corporation plc  
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30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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