

# Eaton 265792

Catalog Number: 265792

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 875A, H, 4



### General specifications

Product Name	Catalog Number
Eaton Moeller series NZM molded case circuit breaker electronic	265792
	EAN
	4015082657925
Product Length/Depth	Product Height
401 mm	207 mm
Product Width	Product Weight
210 mm	21 kg
Compliances	Certifications
RoHS conform	IEC/EN 60947
	IEC

## Product specifications

### Type

Circuit breaker

### Special features

IEC/EN 60947-4-1, IEC/EN 60947-2

The circuit-breaker fulfills all requirements for AC-3 switching category.

R.m.s. value measurement and "thermal memory"

Adjustable time delay setting to overcome current peaks  $I_r$  at  $6 \times I_r$  also infinity (without overload releases)

All AC-3 rating data applies to direct switching by the circuit-breaker under normal operating conditions. If, for example, a contactor takes over AC-3 switching under normal operating conditions, the full rated uninterrupted current applies to the circuit-breaker,  $I_n = I_u$ .

Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity  $I_{cn}$ )  
Rated current = rated uninterrupted current: 875 A

### Application

Use in unearthed supply systems at 525 V

### Amperage Rating

875 A

### Voltage rating

690 V - 690 V

### Circuit breaker frame type

NZM4

## 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-nzm-mccb-characteristic-curve-055.eps](#)

### Drawings

[eaton-circuit-breaker-nzm-mccb-dimensions-022.eps](#)

[eaton-circuit-breaker-switch-nzm-mccb-3d-drawing-003.eps](#)

[eaton-general-ie-ready-dilm-contactor-standards.eps](#)

### eCAD model

[ETN.265792.edz](#)

### Installation instructions

[eaton-circuit-breaker-basic-unit-nzm4-il01210010z.pdf](#)

### Installation videos

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

[The new digital NZM Range](#)

### mCAD model

[DA-CD-nzm4\\_3p](#)

[DA-CS-nzm4\\_3p](#)

### Technical data sheets

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

#### 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

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.

#### Fitted with:

Thermal protection

#### Pollution degree

3

#### Mounting Method

Built-in device fixed built-in technique

Fixed

#### Climatic proofing

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

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

#### Equipment heat dissipation, current-dependent

84.98 W

#### Utilization category

B (IEC/EN 60947-2)

#### 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

Protection against direct contact

Finger and back-of-hand proof to VDE 0106 part 100

Rated insulation voltage (Ui)

1000 V

Rated operating power at AC-3, 230 V

250 kW

Rated operating power at AC-3, 400 V

500 kW

Switch off technique

Electronic

Degree of protection

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

IP20

Direction of incoming supply

As required

Electrical connection type of main circuit

Screw connection

Lifespan, mechanical

10000 operations

Overvoltage category

III

Rated operational current

588 A (690 V AC-3)

820 A (400 V AC-3)

Degree of protection (IP), front side

IP40 (with insulating surround)

IP66 (with door coupling rotary handle)

Degree of protection (terminations)

IP10 (tunnel terminal)

IP00 (terminations, phase isolator and strip terminal)

Number of poles

Three-pole

Terminal capacity (copper strip)

Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection  
(punched)

10 segments of 80 mm x 1 mm (2x) at rear-side width extension

Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal

Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor

terminal

Min. 5 segments of 25 mm x 1 mm at rear-side connection  
(punched)

10 segments of 50 mm x 1 mm (2x) at 1-hole module plate

#### Lifespan, electrical

2000 operations at 690 V AC-1

3000 operations at 415 V AC-1

3000 operations at 400 V AC-1

1000 operations at 690 V AC-3

2000 operations at 400 V AC-3

2000 operations at 415 V AC-3

#### Functions

Motor protection

Phase failure sensitive

#### Shock resistance

15 g (half-sinusoidal shock 11 ms)

#### Rated operational current for specified heat dissipation (I<sub>n</sub>)

875 A

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

19.2 kA

#### Rated short-time withstand current (t = 1 s)

19.2 kA

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

12250 A

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

1750 A

#### Handle type

Rocker lever

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

12250 A

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

875 A

#### Number of operations per hour - max

60

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

875 A

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

438 A

#### Rated short-circuit breaking capacity I<sub>cs</sub> (IEC/EN 60947) at 230

V, 50/60 Hz

63 kA

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

50 kA

Rated short-circuit breaking capacity  $I_{cs}$  (IEC/EN 60947) at 440 V, 50/60 Hz

50 kA

Rated short-circuit breaking capacity  $I_{cs}$  (IEC/EN 60947) at 525 V, 50/60 Hz

50 kA

Rated short-circuit breaking capacity  $I_{cs}$  (IEC/EN 60947) at 690 V, 50/60 Hz

37 kA

#### Standard terminals

Screw terminal

#### Optional terminals

Connection on rear. Strip terminal. Tunnel terminal

#### Release system

Electronic release

#### Short-circuit total breaktime

< 25 ms ( < 415 V); < 35 ms (> 415 V)

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

240 mm<sup>2</sup> (2x) at rear-side width extension

70 mm<sup>2</sup> - 240 mm<sup>2</sup> (6x) at rear-side width extension

185 mm<sup>2</sup> - 240 mm<sup>2</sup> (1x) at rear-side 1-hole module plate

50 mm<sup>2</sup> (4x) at rear-side 2-hole module plate

70 mm<sup>2</sup> - 185 mm<sup>2</sup> (2x) at rear-side 1-hole module plate

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

50 mm<sup>2</sup> - 240 mm<sup>2</sup> (4x) at 4-hole tunnel terminal

#### Terminal capacity (control cable)

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

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

#### Terminal capacity (copper busbar)

Max. 50 mm x 10 mm (2x) direct at switch rear-side connection

Min. 25 mm x 5 mm at rear-side 1-hole module plate

Max. 80 mm x 10 mm (2x) at rear-side width extension

50 mm x 10 mm (2x) at rear-side 2-hole module plate

Min. 60 mm x 10 mm at rear-side width extension

Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate

Min. 25 mm x 5 mm direct at switch rear-side connection

M10 at rear-side screw connection

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

95 mm<sup>2</sup> - 240 mm<sup>2</sup> (6x) at rear-side width extension  
95 mm<sup>2</sup> - 185 mm<sup>2</sup> (2x) at rear-side 2-hole module plate  
300 mm<sup>2</sup> (4x) at rear-side width extension  
50 mm<sup>2</sup> - 240 mm<sup>2</sup> (4x) at 4-hole tunnel terminal  
95 mm<sup>2</sup> - 300 mm<sup>2</sup> (2x) at rear-side 1-hole module plate  
35 mm<sup>2</sup> - 185 mm<sup>2</sup> (4x) at rear-side 2-hole module plate  
120 mm<sup>2</sup> - 300 mm<sup>2</sup> (1x) at rear-side 1-hole module plate

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

120 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) direct at switch rear-side connection  
50 mm<sup>2</sup> - 185 mm<sup>2</sup> (4x) direct at switch rear-side connection

#### Rated short-circuit breaking capacity I<sub>cu</sub> (IEC/EN 60947) at 400/415 V, 50/60 Hz

50 kA

#### Rated short-circuit making capacity I<sub>cm</sub> at 400/415 V, 50/60 Hz

187 kA

#### Rated short-circuit making capacity I<sub>cm</sub> at 440 V, 50/60 Hz

187 kA

#### Rated short-circuit making capacity I<sub>cm</sub> at 525 V, 50/60 Hz

143 kA

#### Rated short-circuit making capacity I<sub>cm</sub> at 690 V, 50/60 Hz

100 kA

#### Rated short-circuit making capacity I<sub>cm</sub> at 240 V, 50/60 Hz

275 kA

#### Rated impulse withstand voltage (U<sub>imp</sub>) at auxiliary contacts

6000 V

#### Rated impulse withstand voltage (U<sub>imp</sub>) at main contacts

8000 V