

# Specifications



Photo is representative



## Eaton 265769

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 800A, N, frame 4, VE800

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series NZM molded case circuit breaker electronic
<b>CATALOG NUMBER</b>	265769
<b>MODEL CODE</b>	NZMN4-VE800
<b>EAN</b>	4015082657697
<b>PRODUCT LENGTH/DEPTH</b>	401 mm
<b>PRODUCT HEIGHT</b>	207 mm
<b>PRODUCT WIDTH</b>	210 mm
<b>PRODUCT WEIGHT</b>	15.52 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC/EN 60947 IEC
<b>GLOBAL CATALOG</b>	265769

## Product specifications

<b>AMPERAGE RATING</b>	800 A
<b>VOLTAGE RATING</b>	690 V - 690 V
<b>CIRCUIT BREAKER FRAME TYPE</b>	NZM4
<b>FEATURES</b>	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

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.

## Resources

### BROCHURES

[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-nzm-mccb-characteristic-curve-049.eps](#)

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-048.eps](#)

### DECLARATIONS OF CONFORMITY

[eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250294en.pdf](#)

### DRAWINGS

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

### ECAD MODEL

[ETN.265769.edz](#)

### INSTALLATION INSTRUCTIONS

[eaton-circuit-breaker-basic-unit-nzmn4-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](#)

### PEP ECO-PASSPORT

[eaton-molded-case-switches-pep-eato-00221-v0101-en.pdf](#)

### TECHNICAL DATA SHEETS

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

<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>POLLUTION DEGREE</b>	3
<b>MOUNTING METHOD</b>	Built-in device fixed built-in technique Fixed
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	106 W
<b>UTILIZATION CATEGORY</b>	B (IEC/EN 60947-2)
<b>ISOLATION</b>	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	40 °C
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0

<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>PROTECTION AGAINST DIRECT CONTACT</b>	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
<b>DEGREE OF PROTECTION</b>	IP20 IP20 (basic degree of protection, in the operating controls area)
<b>DIRECTION OF INCOMING SUPPLY</b>	As required
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>LIFESPAN, MECHANICAL</b>	10000 operations
<b>OVERVOLTAGE CATEGORY</b>	III
<b>DEGREE OF PROTECTION (IP), FRONT SIDE</b>	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
<b>DEGREE OF PROTECTION (TERMINATIONS)</b>	IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal)
<b>NUMBER OF POLES</b>	Three-pole
<b>TERMINAL CAPACITY (COPPER STRIP)</b>	Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched)
	Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal 10 segments of 80 mm x 1 mm (2x) at rear-side width extension
<b>LIFESPAN, ELECTRICAL</b>	2000 operations at 415 V AC-3 2000 operations at 400 V AC-3 2000 operations at 690 V AC-1

	3000 operations at 400 V AC-1 1000 operations at 690 V AC-3 3000 operations at 415 V AC-1
<b>FUNCTIONS</b>	Systems, cable, selectivity and generator protection
<b>TYPE</b>	Circuit breaker
<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"> <li>• 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 <math>I_{cn}</math>)</li> <li>• R.m.s. value measurement and "thermal memory"</li> <li>• Adjustable time delay setting to overcome current peaks <math>t_r</math> at <math>6 \times I_r</math> also infinity (without overload releases)</li> <li>• Adjustable delay time <math>t_{sd}</math></li> <li>• <math>i^2t</math> constant function: switchable</li> <li>• Rated current = rated uninterrupted current: 800 A</li> </ul>
<b>APPLICATION</b>	Use in unearthing supply systems at 525 V
<b>SHOCK RESISTANCE</b>	15 g (half-sinusoidal shock 11 ms)
<b>POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT</b>	Front side
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	800 A
<b>RELEASE SYSTEM</b>	Electronic release
<b>SHORT-CIRCUIT TOTAL BREAKTIME</b>	< 25 ms ( $\leq 415$ V); < 35 ms ( $> 415$ V)
<b>RATED SHORT-TIME</b>	12 kA

**WITHSTAND CURRENT (T****= 0.3 S)****RATED SHORT-TIME****WITHSTAND CURRENT (T****= 1 S)****12 kA****SHORT-CIRCUIT RELEASE****DELAYED SETTING - MAX****8000 A****SHORT-CIRCUIT RELEASE****DELAYED SETTING - MIN****800 A****SHORT-CIRCUIT RELEASE****NON-DELAYED SETTING -****12000 A****MAX****SHORT-CIRCUIT RELEASE****NON-DELAYED SETTING -****1600 A****MIN****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)**

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

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

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

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

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

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

Min. 60 mm x 10 mm at  
rear-side width extension  
M10 at rear-side screw  
connection

35 mm<sup>2</sup> - 185 mm<sup>2</sup> (4x) at  
rear-side 2-hole module  
plate

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

95 mm<sup>2</sup> - 240 mm<sup>2</sup> (6x) at  
rear-side width extension  
300 mm<sup>2</sup> (4x) at rear-side  
width extension

120 mm<sup>2</sup> - 300 mm<sup>2</sup> (1x) at  
rear-side 1-hole module  
plate

95 mm<sup>2</sup> - 300 mm<sup>2</sup> (2x) at  
rear-side 1-hole module  
plate

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

**TERMINAL CAPACITY****(COPPER BUSBAR)****TERMINAL CAPACITY****(COPPER SOLID  
CONDUCTOR/CABLE)**

<b>TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)</b>	240 mm <sup>2</sup> (2x) at rear-side width extension 50 mm <sup>2</sup> (4x) at rear-side 2-hole module plate 185 mm <sup>2</sup> - 240 mm <sup>2</sup> (1x) at rear-side 1-hole module plate 70 mm <sup>2</sup> - 240 mm <sup>2</sup> (6x) at rear-side width extension 70 mm <sup>2</sup> - 185 mm <sup>2</sup> (2x) at rear-side 1-hole module plate
<b>TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)</b>	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
<b>TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)</b>	50 mm <sup>2</sup> - 240 mm <sup>2</sup> (4x) at 4-hole tunnel terminal
<b>HANDLE TYPE</b>	Rocker lever
<b>SHORT DELAY CURRENT SETTING (ISD) - MAX</b>	8000 A
<b>SHORT DELAY CURRENT SETTING (ISD) - MIN</b>	800 A
<b>INSTANTANEOUS CURRENT SETTING (II) - MAX</b>	9600 A
<b>INSTANTANEOUS CURRENT SETTING (II) - MIN</b>	1600 A
<b>NUMBER OF OPERATIONS PER HOUR - MAX</b>	60
<b>OVERLOAD CURRENT SETTING (IR) - MAX</b>	800 A
<b>OVERLOAD CURRENT SETTING (IR) - MIN</b>	400 A
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 Hz</b>	37 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 Hz</b>	37 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 Hz</b>	26 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V,</b>	19 kA

**50/60 Hz**

**RATED SHORT-CIRCUIT  
BREAKING CAPACITY ICS  
(IEC/EN 60947) AT 690 V,  
50/60 Hz**

15 kA

**RATED SHORT-CIRCUIT  
MAKING CAPACITY ICM  
AT 400/415 V, 50/60 Hz**

105 kA

**RATED SHORT-CIRCUIT  
MAKING CAPACITY ICM  
AT 440 V, 50/60 Hz**

74 kA

**RATED SHORT-CIRCUIT  
MAKING CAPACITY ICM  
AT 525 V, 50/60 Hz**

53 kA

**RATED SHORT-CIRCUIT  
MAKING CAPACITY ICM  
AT 690 V, 50/60 Hz**

40 kA

**STANDARD TERMINALS**

Screw terminal

**OPTIONAL TERMINALS**

Connection on rear. Strip  
terminal. Tunnel terminal

**RATED SHORT-CIRCUIT  
MAKING CAPACITY ICM  
AT 240 V, 50/60 Hz**

105 kA

**RATED IMPULSE**

**WITHSTAND VOLTAGE  
(UIMP) AT AUXILIARY  
CONTACTS**

6000 V

**RATED IMPULSE  
WITHSTAND VOLTAGE  
(UIMP) AT MAIN  
CONTACTS**

8000 V

**RATED SHORT-CIRCUIT  
BREAKING CAPACITY ICU  
(IEC/EN 60947) AT 525 V,  
50/60 Hz**

25 kA

**RATED SHORT-CIRCUIT  
BREAKING CAPACITY ICU  
(IEC/EN 60947) AT  
400/415 V, 50/60 Hz**

50 kA

**RATED SHORT-CIRCUIT  
BREAKING CAPACITY ICU  
(IEC/EN 60947) AT 230 V,  
50/60 Hz**

50 kA

**RATED SHORT-CIRCUIT  
BREAKING CAPACITY ICU  
(IEC/EN 60947) AT 690 V,  
50/60 Hz**

20 kA

**RATED SHORT-CIRCUIT  
BREAKING CAPACITY ICU  
(IEC/EN 60947) AT 440 V,  
50/60 Hz**

35 kA

**RATED INSULATION  
VOLTAGE (UI)**

1000 V AC

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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