

# Specifications



Photo is representative

## Eaton 113201

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 200A, plug-in module, B2-S200-SVE

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series NZM molded case circuit breaker magnetic
<b>CATALOG NUMBER</b>	113201
<b>MODEL CODE</b>	NZMB2-S200-SVE
<b>EAN</b>	4015081127368
<b>PRODUCT LENGTH/DEPTH</b>	180 mm
<b>PRODUCT HEIGHT</b>	245 mm
<b>PRODUCT WIDTH</b>	105 mm
<b>PRODUCT WEIGHT</b>	2.768 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC/EN 60947 IEC

## Product specifications

<b>AMPERAGE RATING</b>	200 A
<b>VOLTAGE RATING</b>	440 V - 440 V
<b>CIRCUIT BREAKER FRAME TYPE</b>	NZM2
<b>ACCESSORIES REQUIRED</b>	NZM2-XSVS
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.

## Resources

### BROCHURES

[eaton-digital-nzm-brochure-br013003en-en-us.pdf](#)

[eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf](#)

### CATALOGUES

[eaton-digital-nzm-catalog-ca013003en-en-us.pdf](#)

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

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-052.eps](#)

### CHARACTERISTIC CURVE

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

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-053.eps](#)

### DECLARATIONS OF CONFORMITY

[eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250290en.pdf](#)

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

[eaton-circuit-breaker-adapter-nzm-mccb-dimensions-002.eps](#)

### DRAWINGS

[eaton-circuit-breaker-nzm-mccb-dimensions-019.eps](#)

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

### INSTALLATION INSTRUCTIONS

[eaton-circuit-breaker-plug-in-adapter-nzm2-il01219023z.pdf](#)

### INSTALLATION VIDEOS

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

[The new digital NZM Range](#)

<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<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 plug-in technique Plug-in unit
<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>	48 W
<b>UTILIZATION CATEGORY</b>	A (IEC/EN 60947-2)
<b>ISOLATION</b>	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main 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>MCAD MODEL</b>	<a href="#">DA-CS-nzm2_xsve</a>
	<a href="#">DA-CD-nzm2_xsve</a>
<b>PEP ECO-PASSPORT</b>	<a href="#">eaton-molded-case-switches-pep-eato-00218-v0101-en.pdf</a>
<b>TECHNICAL DATA SHEETS</b>	<a href="#">eaton-nzm-technical-information-sheet</a>

<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	40 °C
<b>PROTECTION AGAINST DIRECT CONTACT</b>	Finger and back-of-hand proof to VDE 0106 part 100
<b>RATED INSULATION VOLTAGE (UI)</b>	690 V
<b>RATED OPERATING POWER AT AC-3, 230 V</b>	55 kW
<b>RATED OPERATING POWER AT AC-3, 400 V</b>	110 kW
<b>SWITCH OFF TECHNIQUE</b>	Magnetic
<b>DEGREE OF PROTECTION</b>	IP20 (basic degree of protection, in the operating controls area) IP20
<b>DIRECTION OF INCOMING SUPPLY</b>	As required
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>LIFESPAN, MECHANICAL</b>	20000 operations
<b>OVERVOLTAGE CATEGORY</b>	III
<b>RATED OPERATIONAL CURRENT</b>	196 A (400 V AC-3)
<b>DEGREE OF PROTECTION (IP), FRONT SIDE</b>	IP66 (with door coupling rotary handle) IP40 (with insulating surround)
<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. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal
<b>LIFESPAN, ELECTRICAL</b>	7500 operations at 415 V

AC-1	
10000 operations at 400 V	
AC-1	
<b>FUNCTIONS</b>	Short-circuit 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>• Motor protection in conjunction with overload relay</li> <li>• With short-circuit release</li> <li>• Without overload release <math>I_r</math></li> <li>• IEC/EN 60947-4-1, IEC/EN 60947-2</li> <li>• The circuit-breaker fulfills all requirements for AC-3 switching category.</li> <li>• Rated current = rated uninterrupted current: 200 A</li> </ul>
<b>APPLICATION</b>	Use in unearthing supply systems at 440 V
<b>SHOCK RESISTANCE</b>	20 g (half-sinusoidal shock 20 ms)
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	200 A
<b>SHORT-CIRCUIT RELEASE</b>	
<b>NON-DELAYED SETTING - MAX</b>	2500 A
<b>SHORT-CIRCUIT RELEASE</b>	
<b>NON-DELAYED SETTING - MIN</b>	1600 A
<b>HANDLE TYPE</b>	Rocker lever
<b>INSTANTANEOUS CURRENT SETTING (II) -</b>	44328 A

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**MAX**

**INSTANTANEOUS**  
**CURRENT SETTING (II) -** 8 A  
**MIN**

**NUMBER OF**  
**OPERATIONS PER HOUR -** 120  
**MAX**

**OVERLOAD CURRENT** 0 A  
**SETTING (IR) - MAX**

**OVERLOAD CURRENT** 0 A  
**SETTING (IR) - MIN**

**RATED SHORT-CIRCUIT**  
**BREAKING CAPACITY ICS**  
**(IEC/EN 60947) AT 230 V,**  
**50/60 HZ** 30 kA

**RATED SHORT-CIRCUIT**  
**BREAKING CAPACITY ICS**  
**(IEC/EN 60947) AT** 18.5 kA  
**400/415 V, 50/60 HZ**

**RATED SHORT-CIRCUIT**  
**BREAKING CAPACITY ICS**  
**(IEC/EN 60947) AT 440 V,**  
**50/60 HZ** 18.5 kA

**STANDARD TERMINALS** Screw terminal

**OPTIONAL TERMINALS** Box terminal. Connection  
on rear. Tunnel terminal

**RELEASE SYSTEM** Thermomagnetic release

**SHORT-CIRCUIT TOTAL** < 10 ms  
**BREAKTIME**

**TERMINAL CAPACITY**  
**(ALUMINUM SOLID**  
**CONDUCTOR/CABLE)** 16 mm<sup>2</sup> (1x) at tunnel  
terminal

**TERMINAL CAPACITY**  
**(ALUMINUM STRANDED**  
**CONDUCTOR/CABLE)** 25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at  
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)** Min. 16 mm x 5 mm direct  
at switch rear-side  
connection  
Max. 24 mm x 8 mm direct  
at switch rear-side  
connection  
M8 at rear-side screw  
connection

**TERMINAL CAPACITY**  
**(COPPER SOLID**  
**CONDUCTOR/CABLE)** 16 mm<sup>2</sup> (1x) at tunnel  
terminal  
6 mm<sup>2</sup> - 16 mm<sup>2</sup> (2x) direct  
at switch rear-side  
connection

<b>TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)</b>	6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) at box terminal 10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) direct at switch rear-side connection 10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) at box terminal
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 HZ</b>	25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at 1-hole tunnel terminal 25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) direct at switch rear-side connection 25 mm <sup>2</sup> - 70 mm <sup>2</sup> (2x) at box terminal 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) direct at switch rear-side connection
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ</b>	18.5 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ</b>	53 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ</b>	63 kA
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS</b>	6000 V
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS</b>	8000 V
<b>POWER LOSS</b>	38 W

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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