

# Specifications



## Eaton 113734

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 3p 200A +pull out

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series NZM switch-disconnector
<b>CATALOG NUMBER</b>	113734
<b>MODEL CODE</b>	N2-200-SVE
<b>EAN</b>	4015081132744
<b>PRODUCT LENGTH/DEPTH</b>	180 mm
<b>PRODUCT HEIGHT</b>	245 mm
<b>PRODUCT WIDTH</b>	105 mm
<b>PRODUCT WEIGHT</b>	2.368 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC IEC/EN 60947
<b>GLOBAL CATALOG</b>	113734

## Product specifications

<b>AMPERAGE RATING</b>	200 A
<b>VOLTAGE RATING</b>	690 V - 690 V
<b>CIRCUIT BREAKER FRAME TYPE</b>	N2
<b>FEATURES</b>	<p>Version as emergency stop installation</p> <p>Motor drive optional</p> <p>Version as maintenance-/service switch</p> <p>Version as main switch</p>
<b>ACCESSORIES REQUIRED</b>	NZM2-XSVS socket base
<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.

## 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](#)

### DECLARATIONS OF CONFORMITY

[eaton-switch-disconnector-declaration-of-conformity-eu250126en.pdf](#)

### 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](#)

### ECAD MODEL

[DA-CE-ETN.N2-200-SVE](#)

### INSTALLATION VIDEOS

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

[The new digital NZM Range](#)

### MCAD MODEL

[DA-CS-nzm2\\_xsve](#)

[DA-CD-nzm2\\_xsve](#)

### PEP ECO-PASSPORT

[eaton-switch-disconnectors-pep-eato-00196-v0101-en.pdf](#)

### TECHNICAL DATA SHEETS

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

<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<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>	Distribution board installation Built-in device plug-in technique Intermediate mounting Plug-in unit Ground mounting
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	30.72 W
<b>ISOLATION</b>	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	3.5 kA
<b>DEGREE OF PROTECTION</b>	IP20 (basic protection)

	<p>type, in the area of the HMI devices) Other</p>
<b>DIRECTION OF INCOMING SUPPLY</b>	As required
<b>ELECTRICAL</b>	
<b>CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<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>RATED INSULATION VOLTAGE (Ui)</b>	690 V
<b>RATED OPERATING FREQUENCY</b>	50 Hz
<b>RATED OPERATING POWER AT AC-23, 400 V</b>	110 kW
<b>RATED OPERATING POWER AT AC-3, 400 V</b>	0 kW
<b>SWITCH POSITIONS</b>	I, +, 0
<b>LIFESPAN, MECHANICAL</b>	20000 operations
<b>OVERVOLTAGE CATEGORY</b>	III
<b>RATED OPERATIONAL CURRENT</b>	<p>250 A (415 V AC-22/23A, making and breaking capacity) 250 A (690 V AC-22/23A, making and breaking capacity)</p>
<b>DEGREE OF PROTECTION (IP), FRONT SIDE</b>	<p>IP40 (with insulating surround) IP66 (with door coupling rotary handle) IP20</p>

<b>DEGREE OF PROTECTION (TERMINATIONS)</b>	IP00 (terminations, phase isolator and band terminal) IP10 (tunnel terminal)
<b>NUMBER OF POLES</b>	Three-pole
<b>TERMINAL CAPACITY (COPPER STRIP)</b>	Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) 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. 8 segments of 15.5 mm x 0.8 mm (2x) at box terminal
<b>HANDLE COLOR</b>	Black
<b>LIFESPAN, ELECTRICAL</b>	5000 operations at 690 V AC-3 7500 operations at 415 V AC-3 7500 operations at 690 V AC-1 10000 operations at 400 V AC-1 7500 operations at 400 V AC-3 10000 operations at 415 V AC-1
<b>FUNCTIONS</b>	Interlockable Disconnectors/main switches Voltage release optional
<b>TYPE</b>	Switch-disconnector
<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"> <li>• Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113.</li> <li>• Isolating characteristics to IEC/EN 60947-3 and VDE 0660.</li> <li>• Busbar tag shroud to VDE 0160 Part 100.</li> <li>• Rated current = rated uninterrupted current: 200 A</li> <li>• The rated short-</li> </ul>

time withstand current for PN2/N2 in conjunction with earth-fault release NZM2-4-XFI...lcw = 1.5 kA	
<b>APPLICATION</b>	Use in unearthing supply systems at 690 V
<b>SHOCK RESISTANCE</b>	20 g (half-sinusoidal shock 20 ms)
<b>NUMBER OF SWITCHES</b>	1
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	0 kA
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH BACK-UP FUSE</b>	80 kA at 690 V 100 kA at 400/415 V PN2(N2)-160...250: 250 AgGgL
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH DOWNSTREAM FUSE</b>	80 kA at 690 V 100 kA at 400/415 V PN2(N2)-160...250: 250 AgGgL
<b>RATED OPERATING VOLTAGE (UE) AT AC - MAX</b>	690 V
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	200 A
<b>RATED PERMANENT CURRENT AT AC-21, 400 V</b>	0 A
<b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>	0 A
<b>RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)</b>	3.5 kA
<b>RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)</b>	3.5 kA
<b>SWITCHING POWER AT 400 V</b>	0 kW
<b>HANDLE TYPE</b>	Rocker lever
<b>NUMBER OF OPERATIONS PER HOUR - MAX</b>	120
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 Hz</b>	5.5 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>SHORT-CIRCUIT PROTECTIVE DEVICE FUSES - MAX</b>	250 A gL
<b>TERMINAL CAPACITY (COPPER BUSBAR)</b>	<p>Min. 16 mm x 5 mm direct at switch rear-side connection</p> <p>Max. 24 mm x 8 mm direct at switch rear-side connection</p> <p>M8 at rear-side screw connection</p>
<b>TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)</b>	<p>6 mm<sup>2</sup> - 16 mm<sup>2</sup> (2x) direct at switch rear-side connection</p> <p>10 mm<sup>2</sup> - 16 mm<sup>2</sup> (1x) direct at switch rear-side connection</p> <p>16 mm<sup>2</sup> (1x) at tunnel terminal</p> <p>10 mm<sup>2</sup> - 16 mm<sup>2</sup> (1x) at box terminal</p> <p>6 mm<sup>2</sup> - 16 mm<sup>2</sup> (2x) at box terminal</p>
<b>TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)</b>	<p>16 mm<sup>2</sup> (1x) at tunnel terminal</p> <p>10 mm<sup>2</sup> - 16 mm<sup>2</sup> (2x) direct at switch rear-side connection</p> <p>10 mm<sup>2</sup> - 16 mm<sup>2</sup> (1x) direct at switch rear-side connection</p>
<b>TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)</b>	<p>25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at box terminal</p> <p>25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) direct at switch rear-side connection</p> <p>25 mm<sup>2</sup> - 70 mm<sup>2</sup> (2x) direct at switch rear-side connection</p> <p>25 mm<sup>2</sup> - 70 mm<sup>2</sup> (2x) at box terminal</p> <p>25 mm<sup>2</sup> - 185 mm<sup>2</sup> (1x) at 1-hole tunnel terminal</p>
<b>TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)</b>	25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at 1-hole tunnel terminal

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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