

# Specifications



## Eaton 168545

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 3p + plug-in contacts, 630A

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series NZM switch-disconnector
<b>CATALOG NUMBER</b>	168545
<b>MODEL CODE</b>	N3-630-SVE
<b>EAN</b>	4015081650200
<b>PRODUCT LENGTH/DEPTH</b>	335 mm
<b>PRODUCT HEIGHT</b>	215.2 mm
<b>PRODUCT WIDTH</b>	140 mm
<b>PRODUCT WEIGHT</b>	5.42 kg
<b>COMPLIANCES</b>	RoHS conform
<b>GLOBAL CATALOG</b>	168545

## Product specifications

<b>AMPERAGE RATING</b>	630 A
<b>VOLTAGE RATING</b>	690 V - 690 V
<b>FEATURES</b>	<p>Version as maintenance-/service switch</p> <p>Motor drive optional</p> <p>Version as emergency stop installation</p> <p>Version as main switch</p>
<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

<b>BROCHURES</b>	<a href="#">eaton-digital-nzm-brochure-br013003en-en-us.pdf</a>
<b>CATALOGS</b>	<a href="#">eaton-digital-nzm-catalog-ca013003en-en-us.pdf</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-switch-disconnector-declaration-of-conformity-eu250127en.pdf</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.N3-630-SVE</a>
<b>INSTALLATION VIDEOS</b>	<p><a href="#">The new digital NZM Range</a></p> <p><a href="#">Introduction of the new digital circuit breaker NZM</a></p>
<b>MCAD MODEL</b>	<p><a href="#">nzmh3_me220_sve.dwg</a></p> <p><a href="#">nzmh3_me220_sve.stp</a></p>
<b>PEP ECO-PASSPORT</b>	<a href="#">eaton-switch-disconnectors-pep-eato-00198-v0101-en.pdf</a>
<b>TECHNICAL DATA SHEETS</b>	<a href="#">eaton-nzm-technical-information-sheet</a>

<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>MOUNTING METHOD</b>	Ground mounting Distribution board installation Intermediate mounting Built-in device plug-in technique
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	107.16 W
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	12 kA
<b>DEGREE OF PROTECTION</b>	IP20
<b>ELECTRICAL 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-</b>	0

<b>OVER CONTACTS)</b>	
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>RATED OPERATING POWER AT AC-23, 400 V</b>	315 kW
<b>RATED OPERATING POWER AT AC-3, 400 V</b>	0 kW
<b>RATED OPERATIONAL CURRENT</b>	630 A (415 V AC-22A, making and breaking capacity) 500 A (415 V AC-23A, making and breaking capacity) 630 A (690 V AC-22A, making and breaking capacity) 500 A (690 V AC-23A, making and breaking capacity)
<b>DEGREE OF PROTECTION (IP), FRONT SIDE</b>	IP20
<b>NUMBER OF POLES</b>	Three-pole
<b>HANDLE COLOR</b>	Black
<b>FUNCTIONS</b>	Voltage release optional Interlockable
<b>SPECIAL FEATURES</b>	Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. Rated current = rated uninterrupted current: 630 A
<b>NUMBER OF SWITCHES</b>	1
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	0 kA
<b>RATED OPERATING VOLTAGE (UE) AT AC - MAX</b>	690 V
<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>SWITCHING POWER AT 400 V</b>	0 kW

<b>HANDLE TYPE</b>	Rocker lever
<b>SHORT-CIRCUIT PROTECTIVE DEVICE</b>	630 A gL
<b>FUSES - MAX</b>	

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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