

# Specifications



Photo is representative

## Eaton 168454

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 320A, plug-in module, C3-S320-SVE

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series NZM molded case circuit breaker magnetic
<b>CATALOG NUMBER</b>	168454
<b>MODEL CODE</b>	NZMC3-S320-SVE
<b>EAN</b>	4015081649372
<b>PRODUCT LENGTH/DEPTH</b>	335 mm
<b>PRODUCT HEIGHT</b>	215.2 mm
<b>PRODUCT WIDTH</b>	140 mm
<b>PRODUCT WEIGHT</b>	6.38 kg
<b>COMPLIANCES</b>	RoHS conform



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## Product specifications

<b>AMPERAGE RATING</b>	320 A
<b>VOLTAGE RATING</b>	690 V - 690 V
<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.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF</b>	Does not apply, since the

## Resources

<b>BROCHURES</b>	<a href="#">eaton-digital-nzm-brochure-br013003en-en-us.pdf</a> <a href="#">eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf</a>
<b>CATALOGUES</b>	<a href="#">eaton-digital-nzm-catalog-ca013003en-en-us.pdf</a>
<b>CHARACTERISTIC CURVE</b>	<a href="#">eaton-circuit-breaker-nzm-mccb-characteristic-curve-035.eps</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250292en.pdf</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.NZMC3-S320-SVE</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-circuit-breaker-plugin-adapter-nzm2-il01219023z.pdf</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">The new digital NZM Range</a> <a href="#">Introduction of the new digital circuit breaker NZM</a>
<b>MCAD MODEL</b>	<a href="#">nzmh3_me220_sve.dwg</a> <a href="#">nzmh3_me220_sve.stp</a>
<b>PEP ECO-PASSPORT</b>	<a href="#">eaton-molded-case-switches-pep-eato-00231-v0101-en.pdf</a>
<b>TECHNICAL DATA SHEETS</b>	<a href="#">eaton-nzm-technical-information-sheet</a>

<b>PROTECTION OF ASSEMBLIES</b>	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>	Built-in device plug-in technique
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	78.64 W
<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>RATED OPERATING POWER AT AC-3, 230 V</b>	90 kW
<b>RATED OPERATING POWER AT AC-3, 400 V</b>	160 kW
<b>SWITCH OFF TECHNIQUE</b>	Magnetic
<b>DEGREE OF PROTECTION</b>	IP20
<b>DIRECTION OF INCOMING SUPPLY</b>	As required
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>RATED OPERATIONAL</b>	279 A (400 V AC-3)

<b>CURRENT</b>	
<b>NUMBER OF POLES</b>	Three-pole
<b>TYPE</b>	Circuit breaker

<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"> <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: 320 A</li> </ul>
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<b>SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX</b>	4480 A
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<b>SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN</b>	2560 A
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<b>HANDLE TYPE</b>	Rocker lever
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<b>INSTANTANEOUS CURRENT SETTING (II) - MAX</b>	14 A
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<b>INSTANTANEOUS CURRENT SETTING (II) - MIN</b>	8 A
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<b>OVERLOAD CURRENT SETTING (IR) - MAX</b>	0 A
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<b>OVERLOAD CURRENT SETTING (IR) - MIN</b>	0 A
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<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ</b>	36 kA
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<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ</b>	36 kA
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<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 HZ</b>	36 kA
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PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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