

Specifications



Photo is representative



Eaton 113236

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 200A, plug-in module, C2-4-A200-SVE

General specifications

PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
CATALOG NUMBER	113236
MODEL CODE	NZMC2-4-A200-SVE
EAN	4015081127719
PRODUCT LENGTH/DEPTH	180 mm
PRODUCT HEIGHT	245 mm
PRODUCT WIDTH	140 mm
PRODUCT WEIGHT	7.07 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC

Product specifications

AMPERAGE RATING	200 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM2
FEATURES	Motor drive optional Protection unit
ACCESSORIES REQUIRED	NZM2-4-XSVS
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	Does not apply, since the

Resources

BROCHURES	eaton-digital-nzm-brochure-br013003en-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
CHARACTERISTIC CURVE	eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-031.eps
DECLARATIONS OF CONFORMITY	eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-035.eps
DRAWINGS	eaton-circuit-breaker-nzm-mccb-characteristic-curve-050.eps
INSTALLATION INSTRUCTIONS	eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250290en.pdf
INSTALLATION VIDEOS	eaton-circuit-breaker-nzm-mccb-dimensions-017.eps eaton-circuit-breaker-nzm-mccb-dimensions-035.eps The new digital NZM Range Introduction of the new digital circuit breaker NZM
MCAD MODEL	DA-CD-nzm2_xsve DA-CS-nzm2_xsve
PEP ECO-PASSPORT	eaton-molded-case-switches-pep-eato-00218-v0101-en.pdf

IMPACT	entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
POLLUTION DEGREE	3
MOUNTING METHOD	DIN rail (top hat rail) mounting optional Built-in device plug-in technique Plug-in unit
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	48 W
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
ISOLATION	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
AMBIENT OPERATING TEMPERATURE - MAX	70 °C

TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet
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AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
DEGREE OF PROTECTION	IP20 (basic degree of protection, in the operating controls area) IP20
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
CURRENT RATING OF NEUTRAL CONDUCTOR	200% of phase conductor
LIFESPAN, MECHANICAL	20000 operations
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION (IP), FRONT SIDE	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
DEGREE OF PROTECTION (TERMINATIONS)	IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal)
NUMBER OF POLES	Four-pole
TERMINAL CAPACITY (COPPER STRIP)	Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched)

	<p>Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched)</p> <p>Min. 2 segments of 9 mm x 0.8 mm at box terminal</p>
LIFESPAN, ELECTRICAL	<p>10000 operations at 400 V AC-1</p> <p>5000 operations at 690 V AC-1</p> <p>7500 operations at 415 V AC-1</p>
FUNCTIONS	System and cable protection
TYPE	Circuit breaker
SPECIAL FEATURES	<ul style="list-style-type: none"> 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 I_{cn}) Rated current = rated uninterrupted current: 200 A Set value in neutral conductor is synchronous with set value I_r of main pole.
APPLICATION	Use in unearthing supply systems at 690 V
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	200 A
POWER LOSS	48 W
RELEASE SYSTEM	Thermomagnetic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
SHORT-CIRCUIT RELEASE	2000 A

**NON-DELAYED SETTING -
MAX**

SHORT-CIRCUIT RELEASE

NON-DELAYED SETTING - 1200 A
MIN

TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm ² - 2.5 mm ² (1x) 0.75 mm ² - 1.5 mm ² (2x)
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Max. 24 mm x 8 mm direct
at switch rear-side
connection

TERMINAL CAPACITY (COPPER BUSBAR)	M8 at rear-side screw connection Min. 16 mm x 5 mm direct at switch rear-side connection
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6 mm² - 16 mm² (2x) direct
at switch rear-side
connection

TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	10 mm ² - 16 mm ² (1x) at box terminal 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 6 mm ² - 16 mm ² (2x) at box terminal 16 mm ² (1x) at tunnel terminal
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16 mm² (1x) at tunnel
terminal

TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	25 mm ² - 185 mm ² (1x) direct at switch rear-side connection 25 mm ² - 70 mm ² (2x) direct at switch rear-side connection 25 mm ² - 185 mm ² (1x) at 1-hole tunnel terminal 25 mm ² - 70 mm ² (2x) at box terminal 25 mm ² - 185 mm ² (1x) at box terminal
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TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	25 mm ² - 185 mm ² (1x) at tunnel terminal
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HANDLE TYPE	Rocker lever
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SHORT DELAY CURRENT SETTING (ISD) - MAX	0 A
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SHORT DELAY CURRENT SETTING (ISD) - MIN	0 A
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INSTANTANEOUS CURRENT SETTING (II) -	10 A
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MAX

INSTANTANEOUS	
CURRENT SETTING (II) -	6 A
MIN	

NUMBER OF	
OPERATIONS PER HOUR -	120
MAX	

OVERLOAD CURRENT	200 A
SETTING (IR) - MAX	

OVERLOAD CURRENT	160 A
SETTING (IR) - MIN	

OVERLOAD CURRENT	160 A - 200 A
SETTING (IR)	

RATED SHORT-CIRCUIT	
BREAKING CAPACITY ICS	55 kA
(IEC/EN 60947) AT 230 V,	
50/60 HZ	

RATED SHORT-CIRCUIT	
BREAKING CAPACITY ICS	36 kA
(IEC/EN 60947) AT	
400/415 V, 50/60 HZ	

RATED SHORT-CIRCUIT	
BREAKING CAPACITY ICS	22.5 kA
(IEC/EN 60947) AT 440 V,	
50/60 HZ	

RATED SHORT-CIRCUIT	
BREAKING CAPACITY ICS	6 kA
(IEC/EN 60947) AT 525 V,	
50/60 HZ	

RATED SHORT-CIRCUIT	
BREAKING CAPACITY ICS	4 kA
(IEC/EN 60947) AT 690 V,	
50/60 HZ	

RATED SHORT-CIRCUIT	
MAKING CAPACITY ICM	76 kA
AT 400/415 V, 50/60 HZ	

RATED SHORT-CIRCUIT	
MAKING CAPACITY ICM	63 kA
AT 440 V, 50/60 HZ	

RATED SHORT-CIRCUIT	
MAKING CAPACITY ICM	24 kA
AT 525 V, 50/60 HZ	

RATED SHORT-CIRCUIT	
MAKING CAPACITY ICM	14 kA
AT 690 V, 50/60 HZ	

STANDARD TERMINALS	Screw terminal
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OPTIONAL TERMINALS	Box terminal. Connection on rear. Tunnel terminal
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RATED SHORT-CIRCUIT	
MAKING CAPACITY ICM	121 kA

AT 240 V, 50/60 Hz

RATED IMPULSE

WITHSTAND VOLTAGE

**(UIMP) AT AUXILIARY
CONTACTS**

6000 V

RATED IMPULSE

WITHSTAND VOLTAGE

**(UIMP) AT MAIN
CONTACTS**

8000 V

RATED INSULATION

VOLTAGE (UI)

690 V AC

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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