

Specifications



Photo is representative

Eaton 265924

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 1000A, H4-4-AE1000

General specifications

PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	265924
MODEL CODE	NZMH4-4-AE1000
EAN	4015082659240
PRODUCT LENGTH/DEPTH	401 mm
PRODUCT HEIGHT	207 mm
PRODUCT WIDTH	280 mm
PRODUCT WEIGHT	27 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947
GLOBAL CATALOG	265924

Product specifications

AMPERAGE RATING	1000 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM4
FEATURES	Protection unit Motor drive optional
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 IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.

Resources

BROCHURES	eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf
CATALOGS	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm-mccb-characteristic-curve-047.eps
DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250294en.pdf
DRAWINGS	eaton-circuit-breaker-nzm-mccb-dimensions-023.eps
ECAD MODEL	ETN.265924.edz
INSTALLATION INSTRUCTIONS	eaton-circuit-breaker-basic-unit-nzmn4-il01210010z.pdf
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM The new digital NZM Range
MCAD MODEL	DA-CD-nzm4_4p DA-CS-nzm4_4p
PEP ECO-PASSPORT	eaton-molded-case-switches-pep-eato-00221-v0101-en.pdf
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

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	Fixed Built-in device fixed built-in technique
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	123 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
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	10000 operations
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION (IP), FRONT SIDE	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
DEGREE OF PROTECTION (TERMINATIONS)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)
NUMBER OF POLES	Four-pole
TERMINAL CAPACITY (COPPER STRIP)	Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) 10 segments of 80 mm x 1 mm (2x) at rear-side width extension 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate
LIFESPAN, ELECTRICAL	2000 operations at 690 V AC-1 3000 operations at 415 V AC-1

1000 operations at 690 V AC-3 2000 operations at 400 V AC-3 3000 operations at 400 V AC-1 2000 operations at 415 V AC-3
FUNCTIONS
System and cable protection

TYPE	Circuit breaker
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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: 1000 A Set value in neutral conductor is synchronous with set value I_r of main pole. R.m.s. value measurement and "thermal memory"
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APPLICATION	Use in unearthing supply systems at 525 V
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SHOCK RESISTANCE	15 g (half-sinusoidal shock 11 ms)
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POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
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RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1000 A
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RELEASE SYSTEM	Electronic release
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SHORT-CIRCUIT TOTAL BREAKTIME	< 25 ms (≤ 415 V); < 35 ms (> 415 V)
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RATED SHORT-TIME WITHSTAND CURRENT ($T = 0.3$ S)	19.2 kA
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RATED SHORT-TIME WITHSTAND CURRENT ($T = 1$ S)	19.2 kA
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SHORT-CIRCUIT RELEASE

NON-DELAYED SETTING - 12000 A
MAX

SHORT-CIRCUIT RELEASE

NON-DELAYED SETTING - 2000 A
MIN

**TERMINAL CAPACITY
(CONTROL CABLE)**

0.75 mm² - 1.5 mm² (2x)
0.75 mm² - 2.5 mm² (1x)

50 mm x 10 mm (2x) at
rear-side 2-hole module
plate
Min. 60 mm x 10 mm at
rear-side width extension
Min. 25 mm x 5 mm direct
at switch rear-side
connection
Max. 50 mm x 10 mm (2x)
at rear-side 1-hole module
plate
Max. 80 mm x 10 mm (2x)
at rear-side width
extension
Min. 25 mm x 5 mm at
rear-side 1-hole module
plate
Max. 50 mm x 10 mm (2x)
direct at switch rear-side
connection
M10 at rear-side screw
connection

**TERMINAL CAPACITY
(COPPER BUSBAR)**

300 mm² (4x) at rear-side
width extension
95 mm² - 240 mm² (6x) at
rear-side width extension
35 mm² - 185 mm² (4x) at
rear-side 2-hole module
plate
50 mm² - 240 mm² (4x) at
4-hole tunnel terminal
95 mm² - 185 mm² (2x) at
rear-side 2-hole module
plate
120 mm² - 300 mm² (1x) at
rear-side 1-hole module
plate
95 mm² - 300 mm² (2x) at
rear-side 1-hole module
plate

**TERMINAL CAPACITY
(COPPER SOLID
CONDUCTOR/CABLE)**

240 mm² (2x) at rear-side
width extension
70 mm² - 240 mm² (6x) at
rear-side width extension
70 mm² - 185 mm² (2x) at
rear-side 1-hole module
plate
185 mm² - 240 mm² (1x) at
rear-side 1-hole module
plate

**TERMINAL CAPACITY
(ALUMINUM SOLID
CONDUCTOR/CABLE)**

	50 mm ² (4x) at rear-side 2-hole module plate
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	50 mm ² - 185 mm ² (4x) direct at switch rear-side connection 120 mm ² - 185 mm ² (1x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm ² - 240 mm ² (4x) at 4-hole tunnel terminal
HANDLE TYPE	Rocker lever
SHORT DELAY CURRENT SETTING (ISD) - MAX	0 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	0 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	12000 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2000 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	1000 A
OVERLOAD CURRENT SETTING (IR) - MIN	500 A
OVERLOAD CURRENT SETTING (IR)	500 A - 1000 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 Hz	63 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 Hz	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 Hz	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 Hz	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 Hz	37 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM	187 kA

AT 400/415 V, 50/60 Hz

RATED SHORT-CIRCUIT
MAKING CAPACITY ICM 187 kA
AT 440 V, 50/60 Hz

RATED SHORT-CIRCUIT
MAKING CAPACITY ICM 143 kA
AT 525 V, 50/60 Hz

RATED SHORT-CIRCUIT
MAKING CAPACITY ICM 100 kA
AT 690 V, 50/60 Hz

STANDARD TERMINALS Screw terminal

OPTIONAL TERMINALS Connection on rear. Strip terminal. Tunnel terminal

RATED SHORT-CIRCUIT
MAKING CAPACITY ICM 275 kA
AT 240 V, 50/60 Hz

RATED IMPULSE
WITHSTAND VOLTAGE
(UIMP) AT AUXILIARY 6000 V
CONTACTS

RATED IMPULSE
WITHSTAND VOLTAGE
(UIMP) AT MAIN 8000 V
CONTACTS

RATED INSULATION
VOLTAGE (UI) 1000 V AC

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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