Specifications



Photo is representative

Eaton 265978

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 1000A, N4-4-VE1000

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	265978
MODEL CODE	NZMN4-4-VE1000
EAN	4015082659783
PRODUCT LENGTH/DEPTH	401 mm
PRODUCT HEIGHT	207 mm
PRODUCT WIDTH	280 mm
PRODUCT WEIGHT	27 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC
GLOBAL CATALOG	265978



Product specifications	S
AMPERAGE RATING	1000 A
OLTAGE RATING	690 V - 690 V
IRCUIT BREAKER FRAME YPE	NZM4
EATURES	Motor drive optional Protection unit
0.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
0.11 SHORT-CIRCUIT ATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
0.12 ELECTROMAGNETIC OMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
0.13 MECHANICAL UNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
0.2.2 CORROSION ESISTANCE	Meets the product standard's requirements.
0.2.3.1 VERIFICATION OF HERMAL STABILITY OF NCLOSURES	Meets the product standard's requirements.
0.2.3.2 VERIFICATION OF ESISTANCE OF NSULATING MATERIALS O NORMAL HEAT	Meets the product standard's requirements.
0.2.3.3 RESIST. OF NSUL. MAT. TO BNORMAL HEAT/FIRE BY INTERNAL ELECT. FFECTS	Meets the product standard's requirements.
IO.2.4 RESISTANCE TO JLTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
0.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
0.2.6 MECHANICAL MPACT	Does not apply, since the entire switchgear needs to be evaluated.
0.2.7 INSCRIPTIONS	Meets the product standard's requirements.

Resources	
BROCHURES	eaton-feerum-the-whole- grain-solution-success- story-en-us.pdf
	eaton-digital-nzm- brochure-br013003en-en- us.pdf
CATALOGS	eaton-digital-nzm-catalog- ca013003en-en-us.pdf
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 049.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 048.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.265978.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-CS-nzm4 4p
	DA-CD-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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
POLLUTION DEGREE	3
MOUNTING METHOD	Built-in device fixed built- in technique Fixed
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	165 W
UTILIZATION CATEGORY	B (IEC/EN 60947-2)
ISOLATION	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE	70 °C
TEMPERATURE - MAX	
AMBIENT STORAGE TEMPERATURE - MIN	40 °C

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 IP20 (basic degree of protection, in the operating controls area)
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	Ш
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)	Max. 10 segments of 50 mm x 1 mm (2x) at rearside connection (punched) 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) 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate 10 segments of 80 mm x 1 mm (2x) at rear-side width extension Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal
LIFESPAN, ELECTRICAL	3000 operations at 415 V AC-1 2000 operations at 690 V AC-1

	3000 operations at 400 V AC-1 2000 operations at 415 V AC-3 1000 operations at 690 V AC-3 2000 operations at 400 V AC-3
FUNCTIONS	Systems, cable, selectivity and generator protection
TYPE	Circuit breaker
	 Maximum back-up fuse, if the

SPECIAL FEATURES

- fuse, if the
 expected shortcircuit currents at
 the installation
 location exceed the
 switching capacity
 of the circuit
 breaker (Rated
 short-circuit
 breaking capacity
 lcn)
- R.m.s. value measurement and "thermal memory"
- Adjustable time delay setting to overcome current peaks tr at 6 x Ir also infinity (without overload releases)
- Adjustable delay time tsd
- i²t constant function: switchable
- Set value in neutral conductor is synchronous with set value Ir of main pole.
- Rated current = rated uninterrupted current: 1000 A

Use in unearthed supply systems at 525 V
15 g (half-sinusoidal shock 11 ms)
Front side
1000 A

CURRENT FOR SPECIFIED	
HEAT DISSIPATION (IN)	Clastronic rolesses
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 25 ms (0 415 V); < 35 ms (> 415 V)
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	12 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	12 kA
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	10000 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	1000 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	12000 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	2000 A
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm ² - 2.5 mm ² (1x) 0.75 mm ² - 1.5 mm ² (2x)
TERMINAL CAPACITY (COPPER BUSBAR)	Min. 25 mm x 5 mm direct at switch rear-side connection Min. 60 mm x 10 mm at rear-side width extension 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 50 mm x 10 mm (2x) at rear-side 2-hole module plate M10 at rear-side screw connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	95 mm ² - 240 mm ² (6x) at rear-side width extension 50 mm ² - 240 mm ² (4x) at 4-hole tunnel terminal 120 mm ² - 300 mm ² (1x) at rear-side 1-hole module plate 95 mm ² - 185 mm ² (2x) at rear-side 2-hole module plate

	35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 95 mm² - 300 mm² (2x) at rear-side 1-hole module plate 300 mm² (4x) at rear-side width extension
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	185 mm² - 240 mm² (1x) at rear-side 1-hole module plate 50 mm² (4x) at rear-side 2-hole module plate 70 mm² - 240 mm² (6x) at rear-side width extension 70 mm² - 185 mm² (2x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side width extension
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	120 mm ² - 185 mm ² (1x) direct at switch rear-side connection 50 mm ² - 185 mm ² (4x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm² - 240 mm² (4x) at 4-hole tunnel terminal
HANDLE TYPE	Rocker lever
SHORT DELAY CURRENT SETTING (ISD) - MAX	10000 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	1000 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	12000 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2000 A
CURRENT SETTING (II) -	2000 A 60
CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR -	
CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR - MAX OVERLOAD CURRENT	60
CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR - MAX OVERLOAD CURRENT SETTING (IR) - MAX OVERLOAD CURRENT	60 1000 A
CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR - MAX OVERLOAD CURRENT SETTING (IR) - MAX OVERLOAD CURRENT SETTING (IR) - MIN OVERLOAD CURRENT	60 1000 A 500 A
CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR - MAX OVERLOAD CURRENT SETTING (IR) - MAX OVERLOAD CURRENT SETTING (IR) - MIN OVERLOAD CURRENT SETTING (IR) RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V,	60 1000 A 500 A 500 A - 1000 A

26 kA
19 kA
15 kA
105 kA
74 kA
53 kA
40 kA
Screw terminal
Connection on rear. Strip terminal. Tunnel terminal
Connection on rear. Strip
Connection on rear. Strip terminal. Tunnel terminal
Connection on rear. Strip terminal. Tunnel terminal 105 kA
Connection on rear. Strip terminal. Tunnel terminal 105 kA 6000 V
Connection on rear. Strip terminal. Tunnel terminal 105 kA 6000 V

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

20 kA

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

35 kA

RATED INSULATION VOLTAGE (UI)

1000 V AC

PROJECT	NAME:
PROJECT	NUMBER:

PREPARED BY:

DATE:



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