Specifications



Photo is representative

Eaton 265928

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 1250A, 800A in 4th pole, H4-4-AE1250/800

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	265928
MODEL CODE	NZMH4-4-AE1250/800
EAN	4015082659288
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	265928



Product specification	S
AMPERAGE RATING	1250 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.

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Resources	
BROCHURES	eaton-digital-nzm- brochure-br013003en-en- us.pdf
	eaton-feerum-the-whole- grain-solution-success- story-en-us.pdf
CATALOGS	<u>eaton-digital-nzm-catalog-</u> <u>ca013003en-en-us.pdf</u>
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	<u>eaton-circuit-breaker-nzm-mccb-dimensions-023.eps</u>
ECAD MODEL	ETN.265928.edz
INSTALLATION INSTRUCTIONS	<u>eaton-circuit-breaker-</u> <u>basic-unit-nzmn4-</u> <u>il01210010z.pdf</u>
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM
	The new digital NZM Range
MCAD MODEL	DA-CS-nzm4 4p
MCAD MODEL	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	Fixed Built-in device fixed built- in technique
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	173.44 W
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
OTIEIZATION CATEGORI	A (ILC/LIN 00947-2)
ISOLATION	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the
ISOLATION AMBIENT OPERATING	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts) 70 °C
ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts) 70 °C -25 °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	800 A 60% of phase conductor
LIFESPAN, MECHANICAL	10000 operations
OVERVOLTAGE CATEGORY	Ш
DEGREE OF PROTECTION (IP), FRONT SIDE	IP66 (with door coupling rotary handle) IP40 (with insulating surround)
DEGREE OF PROTECTION (TERMINATIONS)	IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal)
NUMBER OF POLES	
NUMBER OF POLES	Four-pole
TERMINAL CAPACITY (COPPER STRIP)	Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched) Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal 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 Max. 10 segments of 50 mm x 1 rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal
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
ТҮРЕ	Circuit breaker
SPECIAL FEATURES	 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 Icn) Rated current = rated uninterrupted current: 1250 A Reduced neutral conductor protection Set value in neutral conductor is synchronous with set value Ir of main pole. R.m.s. value measurement and "thermal memory"
APPLICATION	Use in unearthed supply systems at 525 V
SHOCK RESISTANCE	15 g (half-sinusoidal shock 11 ms)
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1250 A
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 25 ms (415 V); < 35 ms (> 415 V)
RATED SHORT-TIME	19.2 kA

WITHSTAND CURRENT (T

-0.3.6)	
= 0.3 S) RATED SHORT-TIME	
WITHSTAND CURRENT (T = 1 S)	19.2 kA
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	15000 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	2500 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)	Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 60 mm x 10 mm at rear-side width extension 50 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 5 mm direct at switch rear-side connection M10 at rear-side screw connection Max. 80 mm x 10 mm (2x) at rear-side width extension Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Min. 50 mm x 10 mm (2x) direct at switch rear-side connection Min. 25 mm x 5 mm at rear-side 1-hole module plate
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	95 mm² - 240 mm² (6x) at rear-side width extension 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 95 mm² - 300 mm² (2x) at rear-side 1-hole module plate 300 mm² (4x) at rear-side width extension 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	50 mm² (4x) at rear-side 2- hole module plate 240 mm² (2x) at rear-side width extension 70 mm² - 240 mm² (6x) at

	rear-side width extension 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate 70 mm² - 185 mm² (2x) at rear-side 1-hole module plate
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	50 mm² - 185 mm² (4x) direct at switch rear-side connection 120 mm² - 185 mm² (1x) 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	0 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	0 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	15000 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2500 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	1250 A
OVERLOAD CURRENT SETTING (IR) - MIN	630 A
OVERLOAD CURRENT SETTING (IR)	400 A - 800 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	37 kA

BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	187 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	187 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	143 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	100 kA
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Screw terminal Connection on rear. Strip terminal. Tunnel terminal
	Connection on rear. Strip
OPTIONAL TERMINALS RATED SHORT-CIRCUIT MAKING CAPACITY ICM	Connection on rear. Strip terminal. Tunnel terminal
OPTIONAL TERMINALS RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY	Connection on rear. Strip terminal. Tunnel terminal 275 kA

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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