Specifications

Photo is representative

Eaton 266032

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 4p 1600A BG4

General specifications	
PRODUCT NAME	Eaton Moeller series NZM switch-disconnector
CATALOG NUMBER	266032
MODEL CODE	N4-4-1600
EAN	4015082660321
PRODUCT LENGTH/DEPTH	401 mm
PRODUCT HEIGHT	207 mm
PRODUCT WIDTH	280 mm
PRODUCT WEIGHT	22 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC
GLOBAL CATALOG	266032

Powering Business Worldwide

Product specifications

AMPERAGE RATING	1600 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	N4
FEATURES	Version as main switch Version as emergency stop installation Motor drive optional Version as maintenance-/service switch
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 eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf
CATALOGS	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-eu250128en.pdf
DRAWINGS	eaton-circuit-breaker-nzm-mccb-dimensions-023.eps
ECAD MODEL	DA-CE-ETN.N4-4-1600
INSTALLATION INSTRUCTIONS	eaton-circuit-breaker-basic-unit-bg4-il012101zu.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-switch-disconnectors-pep-eato-00228-v0101-en.pdf
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

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	Fixed Ground mounting Intermediate mounting Distribution board installation 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	284 W
ISOLATION	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	25 kA
DEGREE OF PROTECTION	IP20 (basic protection type, in the area of the

	HMI devices) Other
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Bolt connection
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 263
RATED INSULATION VOLTAGE (UI)	1000 V
RATED OPERATING FREQUENCY	50 Hz
RATED OPERATING POWER AT AC-23, 400 V	800 kW
RATED OPERATING POWER AT AC-3, 400 V	0 kW
SWITCH POSITIONS	I, +, 0
LIFESPAN, MECHANICAL	10000 operations
OVERVOLTAGE CATEGORY	III
RATED OPERATIONAL CURRENT	1600 A (415 V AC-22/23A, making and breaking capacity) 1600 A (690 V AC-22/23A, making and breaking capacity)
DEGREE OF PROTECTION (IP), FRONT SIDE	IP20 IP40 (with insulating surround) IP66 (with door coupling rotary handle)
DEGREE OF PROTECTION	IP00 (terminations, phase

(TERMINATIONS)	isolator and band terminal) IP10 (tunnel terminal)
NUMBER OF POLES	Four-pole
TERMINAL CAPACITY (COPPER STRIP)	10 segments of 80 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Min. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal
HANDLE COLOR	Black
LIFESPAN, ELECTRICAL	2000 operations at 415 V AC-3 1000 operations at 690 V AC-3 3000 operations at 400 V AC-1 3000 operations at 415 V AC-1 2000 operations at 400 V AC-3 2000 operations at 690 V AC-1
FUNCTIONS	Disconnectors/main switches Interlockable Voltage release optional
TYPE	Switch-disconnector
SPECIAL FEATURES	• Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. • Isolating characteristics to IEC/EN 60947-3 and VDE 0660. • Busbar tag shroud to VDE 0160 Part 100.

	• Rated current = rated uninterrupted current: 1600 A
APPLICATION	Use in unearthed supply systems at 525 V
SHOCK RESISTANCE	15 g (half-sinusoidal shock 11 ms)
NUMBER OF SWITCHES	1
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	0 kA
RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH BACK-UP FUSE	100 kA at 400/415 V N4-630...1600: 2 x 800 AgGgL 80 kA at 690 V
RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH DOWNSTREAM FUSE	80 kA at 690 V N4-630...1600: 2 x 800 AgGgL 100 kA at 400/415 V
RATED OPERATING VOLTAGE (UE) AT AC - MAX	690 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1600 A
RATED PERMANENT CURRENT AT AC-21, 400 V	0 A
RATED PERMANENT CURRENT AT AC-23, 400 V	0 A
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	25 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	25 kA
SWITCHING POWER AT 400 V	0 kW
HANDLE TYPE	Rocker lever
NUMBER OF OPERATIONS PER HOUR - MAX	60
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	53 kA
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE	8000 V

(UIMP) AT MAIN CONTACTS	
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Connection on rear. Strip terminal. Tunnel terminal
SHORT-CIRCUIT PROTECTIVE DEVICE FUSES - MAX	1600 A gL
TERMINAL CAPACITY (COPPER BUSBAR)	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 50 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 60 mm x 10 mm at rear-side width extension Max. 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 Min. 25 mm x 5 mm direct at switch rear-side connection M10 at rear-side screw connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	300 mm^2 (4x) at rear-side width extension 50 mm^2 - 240 mm^2 (4x) at 4-hole tunnel terminal 50 mm^2 (4x) at rear-side 2-hole module plate 95 mm^2 - 240 mm^2 (6x) at rear-side width extension 35 mm^2 - 185 mm^2 (4x) at rear-side 2-hole module plate 70 mm^2 - 185 mm^2 (2x) at rear-side 1-hole module plate 185 mm^2 - 240 mm^2 (1x) at rear-side 1-hole module plate
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	70 mm^2 - 240 mm^2 (6x) at rear-side width extension 240 mm^2 (2x) at rear-side width extension
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

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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