

Specifications



Photo is representative

Eaton 119886

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 4p 1250A 1000VDC

General specifications

PRODUCT NAME	Eaton Moeller series NZM switch-disconnector
CATALOG NUMBER	119886
MODEL CODE	N4-4-1250-S1-DC
EAN	4015081177349
PRODUCT LENGTH/DEPTH	401 mm
PRODUCT HEIGHT	207 mm
PRODUCT WIDTH	280 mm
PRODUCT WEIGHT	22 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC 60947-3 CCC

Additional information

FUNCTIONS

Interlockable
Voltage release optional
Disconnectors/main
switches
Photovoltaic applications

Delivery programme

AMPERAGE RATING 1250 A

APPLICATION

- Open areas
- Utility buildings

CIRCUIT BREAKER FRAME TYPE N4

FEATURES

Remote operation with
shunt releases / remote
operator
Version as emergency stop
installation
Motor drive optional
Version as maintenance-
/service switch
Version as main switch

NUMBER OF POLES Four-pole

SPECIAL FEATURES

- Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113.
- For DC switching, all 4 contacts must be connected in series. Refer to the information on jumper kit accessories.
- Supplied as standard: Screw connection
- box terminal optional.
- When working with ungrounded systems (e.g., IT), the installation must ensure that a double ground fault will be impossible.
- Switch can not be combined with plug-in/withdrawable units and/or connection on rear.
- N4-4-...-S15-DC feeder unit and outgoer from the bottom only.
- Lifespan, mechanical: of

	which max. 50 % trip by shunt/undervoltage release • Rated current = rated uninterrupted current: 1250 A
TYPE	DC switch-disconnector

Design verification to IEC/EN 61439

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.
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	Does not apply, since the

Design verification to IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	231 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1250 A

AGAINST ELECTRIC SHOCK	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.

Technical data - electrical	
AMPERAGE RATING	1250 A
CURRENT RATING (IU) AT 40°C WITH TERMINAL JUMPERS	1250 A
CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS	1250 A
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
HANDLE TYPE	Rocker lever
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED INSULATION VOLTAGE (UI)	1250 V
RATED OPERATIONAL CURRENT	1400 CSA (DC-21B) 1250 A (DC 22-A)
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	34 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.1 S)	34 kA
UTILIZATION CATEGORY	DC-22 A
VOLTAGE RATING	1000 V - 1000 V

Technical data - mechanical	
DEGREE OF PROTECTION	IP20
DEGREE OF PROTECTION (IP), FRONT SIDE	IP20
HANDLE COLOR	Black
LIFESPAN, MECHANICAL	10000 operations
MOUNTING METHOD	Built-in device fixed built-in technique Ground mounting Intermediate mounting Fixed Distribution board installation
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF SWITCHES	1
SPECIAL FEATURES	- Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. - For DC switching, all 4 contacts must

be connected in series. Refer to the information on jumper kit accessories.

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- box terminal optional.
- When working with ungrounded systems (e.g., IT), the installation must ensure that a double ground fault will be impossible.
- Switch can not be combined with plug-in/withdrawable units and/or connection on rear.
- N4-4-...-S15-DC feeder unit and outgoer from the bottom only.
- Lifespan, mechanical: of which max. 50 % trip by shunt/undervoltage release
- Rated current = rated uninterrupted current: 1250 A

SWITCH POSITIONS

I, +, 0

Technical data - mechanical - terminals

STANDARD TERMINALS	Screw terminal
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	25 mm ² - 240 mm ² (4x) at 4-hole tunnel terminal
TERMINAL CAPACITY (COPPER BUSBAR)	Max. 80 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. 60 mm x 10 mm at rear-side width extension 50 mm x 10 mm (2x) at rear-side 2-hole module plate Max. 10 mm x 80 mm (2x) at rear-side width extension Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Min. 25 mm x 5 mm direct at switch rear-side connection M10 at rear-side screw connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 300 mm² (4x) at rear-side width extension 95 mm² - 240 mm² (6x) at rear-side width extension 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate 95 mm² - 300 mm² (2x) at rear-side 1-hole module plate 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 35 mm² - 185 mm² (4x) at rear-side 2-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 (COPPER STRIP)	10 segments of 50 mm x 1 mm (2x) at 1-hole module plate

Resources

BROCHURES	eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf eaton-digital-nzm-brochure-br013003en-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-eu250131en.pdf
DRAWINGS	eaton-circuit-breaker-nzm-switch-disconnector-dimensions.eps eaton-circuit-breaker-terminals-nzm-switch-disconnector-3d-drawing-003.eps eaton-circuit-breaker-nzm-switch-disconnector-3d-drawing.eps eaton-circuit-breaker-cable-nzm-mccb-3d-drawing-004.eps eaton-circuit-breaker-terminals-nzm-switch-disconnector-3d-drawing-002.eps eaton-circuit-breaker-terminals-nzm-switch-disconnector-3d-drawing.eps
ECAD MODEL	DA-CE-ETN.N4-4-1250-S1-DC
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM The new digital NZM Range
MCAD MODEL	eaton-molded-case-switches-mcad-drawings-nzm4-4p.dwg DA-CS-nzm4_4p
PEP ECO-PASSPORT	eaton-switch-disconnectors-pep-eato-00191-v0101-en.pdf
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal
Max. 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

Min. 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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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