

Specifications



Photo is representative

Eaton 152552

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 4p 1600A 1000VDC

General specifications

PRODUCT NAME	Eaton Moeller series NZM switch-disconnector
CATALOG NUMBER	152552
MODEL CODE	N4-4-1600-S1-DC
EAN	4015081492985
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
Disconnectors/main
switches
Photovoltaic applications
Voltage release optional

Delivery programme

AMPERAGE RATING 1600 A

APPLICATION

- Open areas
- Utility buildings

CIRCUIT BREAKER FRAME TYPE N4

FEATURES

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

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: 1600 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	379 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1600 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	1600 A
CURRENT RATING (IU) AT 40°C WITH TERMINAL JUMPERS	1600 A
CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS	1500 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) 1600 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	Distribution board installation Fixed Ground mounting Intermediate mounting Built-in device fixed built-in technique
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: 1600 A

SWITCH POSITIONS

I, +, 0

Technical data - mechanical - terminals

STANDARD TERMINALS

Screw terminal

TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)

25 mm² - 240 mm² (4x) at
4-hole tunnel terminal

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)
direct at switch rear-side
connection
Max. 50 mm x 10 mm (2x)
at rear-side 1-hole module
plate
Max. 10 mm x 80 mm (2x)
at rear-side width
extension
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
50 mm x 10 mm (2x) at
rear-side 2-hole module
plate
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
120 mm² - 300 mm² (1x) at
rear-side 1-hole module
plate
35 mm² - 185 mm² (4x) at
rear-side 2-hole module
plate
95 mm² - 240 mm² (6x) at
rear-side width extension
95 mm² - 300 mm² (2x) at
rear-side 1-hole module
plate
95 mm² - 185 mm² (2x) 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-digital-nzm-
brochure-br013003en-en-
us.pdf](#)

[eaton-feerum-the-whole-
grain-solution-success-
story-en-us.pdf](#)

CATALOGUES

[eaton-digital-nzm-catalog-
ca013003en-en-us.pdf](#)

DECLARATIONS OF CONFORMITY

[eaton-switch-
disconnecter-declaration-
of-conformity-
eu250131en.pdf](#)

DRAWINGS

[eaton-circuit-breaker-nzm-
switch-disconnector-
dimensions.eps](#)

[eaton-circuit-breaker-
terminals-nzm-switch-
disconnecter-3d-drawing-
003.eps](#)

[eaton-circuit-breaker-
cable-nzm-mccb-3d-
drawing-004.eps](#)

[eaton-circuit-breaker-
terminals-nzm-switch-
disconnecter-3d-
drawing.eps](#)

[eaton-circuit-breaker-nzm-
switch-disconnector-3d-
drawing.eps](#)

[eaton-circuit-breaker-
terminals-nzm-switch-
disconnecter-3d-drawing-
002.eps](#)

ECAD MODEL

[DA-CE-ETN.N4-4-1600-S1-
DC](#)

INSTALLATION VIDEOS

[The new digital NZM
Range](#)

[Introduction of the new
digital circuit breaker NZM](#)

[DA-CS-nzm4_4p](#)

MCAD MODEL

[eaton-molded-case-
switches-mcad-drawings-
nzm4-4p.dwg](#)

PEP ECO-PASSPORT

[eaton-switch-
disconnecters-pep-eato-
00191-v0101-en.pdf](#)

TECHNICAL DATA SHEETS

[eaton-nzm-technical-
information-sheet](#)

10 segments of 80 mm x 1 mm (2x) at rear-side width extension

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)

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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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