Specifications



Eaton 179325

Eaton Moeller series NZM - Molded Case Circuit Breaker. Molded Case Switch 4p 800A 1000VDC UL

General specifications	
PRODUCT NAME	Eaton Moeller series NZM switch-disconnector
CATALOG NUMBER	179325
MODEL CODE	N4-4-800-S1-PV-NA
EAN	4015081744114
PRODUCT LENGTH/DEPTH	401 mm
PRODUCT HEIGHT	207 mm
PRODUCT WIDTH	280 mm
PRODUCT WEIGHT	22.723 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC 60947-3 UL489B CE CCC UL listed UL 489B CE marking UL (File No. E471671)



VOLTAGE BATING	800 A
VOLIAGE KATING	1000 V - 1000 V
CIRCUIT BREAKER FRAME TYPE	N4
FEATURES	Version as emergency stop installation Motor drive optional Version as maintenance- /service switch Optionally with XR remote operator. Can be optionally controlled remotely with XU/XA shunt release. Version as main 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	Meets the product standard's requirements.
RESISTANCE	
10.2.3.1 VERIFICATION OF THERMAL STABILITY	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF	Meets the product
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT 10.2.3.3 RESIST. OF INSUL. MAT. TO ARNORMAL HEAT/FIRE	Meets the product standard's requirements. Meets the product

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- eu250128en.pdf
DRAWINGS	eaton-circuit-breaker-nzm- switch-disconnector- dimensions.eps
	eaton-circuit-breaker-nzm- moulded-case-switch-3d- drawing-002.eps
	eaton-circuit-breaker-nzm- moulded-case-switch-3d- drawing.eps
	eaton-circuit-breaker- cable-nzm-mccb-3d- drawing-004.eps
	eaton-circuit-breaker-nzm- switch-disconnector-3d- drawing-002.eps
	eaton-circuit-breaker- terminals-nzm-switch- disconnector-3d- drawing.eps
ECAD MODEL	<u>DA-CE-ETN.N4-4-800-S1-</u> <u>PV-NA</u>
INSTALLATION INSTRUCTIONS	eaton-molded-case- switch-n4-4-s1-s15-pv-na- il012055zu.pdf
INSTALLATION VIDEOS	The new digital NZM Range
	Introduction of the new digital circuit breaker NZM
MCAD MODEL	n4 4 pv na.dwg
PEP ECO-PASSPORT	eaton-switch- disconnectors-pep-eato- 00201-v0101-en.pdf

standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
Does not apply, since the entire switchgear needs to be evaluated.
Meets the product standard's requirements.
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3
Built-in device fixed built-in technique Fixed Distribution board installation Intermediate mounting Ground mounting
95 W
DC-22 A
34 kA

TECHNICAL DATA SHEETS

eaton-nzm-technical-information-sheet

ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE TEMPERATURE - MIN AMBIENT STORAGE TEMPERATURE - MIN CURRENT RATING (IU) AT 40°C WITH TERMINAL JUMPERS CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 12 mm x 1 mm (2x) at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal		
CONNECTION TYPE OF MAIN CIRCUIT AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE TEMPERATURE - MIN CURRENT STORAGE TEMPERATURE - MIN CURRENT RATING (IU) AT 40°C WITH TERMINAL JUMPERS CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-3, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT PEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES FOUr-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal (Max. 10 segments of 32 mm x 1 mm (2x) at flat	DEGREE OF PROTECTION	IP20
TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN CURRENT RATING (IU) AT 40°C WITH TERMINAL JUMPERS CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS I, +, 0 LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat	CONNECTION TYPE OF	Screw connection
TEMPERATURE - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN CURRENT RATING (IU) AT 40°C WITH TERMINAL JUMPERS CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-33, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat		70 °C
TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN CURRENT RATING (IU) AT 40°C WITH TERMINAL JUMPERS CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat		-25 °C
TEMPERATURE - MIN CURRENT RATING (IU) AT 40°C WITH TERMINAL JUMPERS CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat		70 °C
AT 40°C WITH TERMINAL JUMPERS CURRENT RATING (IU) AT 65°C WITH TERMINAL JUMPERS NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat		40 °C
AT 65°C WITH TERMINAL JUMPERS NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat	AT 40°C WITH TERMINAL	800 A
CONTACTS (CHANGE-OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat	AT 65°C WITH TERMINAL	800 A
CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS I, +, 0 LIFESPAN, MECHANICAL 10000 operations OVERVOLTAGE CATEGORY III RATED OPERATIONAL CURRENT 800 A (DC 22-A) DEGREE OF PROTECTION (IP), FRONT SIDE IP20 NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat	CONTACTS (CHANGE-	0
CONTACTS (NORMALLY OPEN CONTACTS) RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS I, +, 0 LIFESPAN, MECHANICAL 10000 operations OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal (Max. 10 segments of 32 mm x 1 mm (2x) at flat	CONTACTS (NORMALLY	0
VOLTAGE (UI) RATED OPERATING POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat	CONTACTS (NORMALLY	0
POWER AT AC-23, 400 V RATED OPERATING POWER AT AC-3, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat		1250 V
POWER AT AC-3, 400 V SWITCH POSITIONS LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat		0 kW
LIFESPAN, MECHANICAL 10000 operations OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat		0 kW
OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal X 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat	SWITCH POSITIONS	I, +, 0
RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal (COPPER STRIP) Max. 10 segments of 32 mm x 1 mm (2x) at flat	LIFESPAN, MECHANICAL	10000 operations
CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal (COPPER STRIP) Max. 10 segments of 32 mm x 1 mm (2x) at flat		Ш
(IP), FRONT SIDE NUMBER OF POLES Four-pole Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal (COPPER STRIP) Max. 10 segments of 32 mm x 1 mm (2x) at flat		800 A (DC 22-A)
Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal (COPPER STRIP) Max. 10 segments of 32 mm x 1 mm (2x) at flat		IP20
x 0.8 mm at flat conductor TERMINAL CAPACITY (COPPER STRIP) Max. 10 segments of 32 mm x 1 mm (2x) at flat	NUMBER OF POLES	Four-pole
		x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat

	10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Min. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Max. 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 NA: same as for IEC
HANDLE COLOR	Black
LIFESPAN, ELECTRICAL	500 operations
FUNCTIONS	Photovoltaic applications Interlockable Disconnectors/main switches Voltage release optional DC switch-
ТҮРЕ	disconnectorSwitch- disconnector
SPECIAL FEATURES	Max. 50 % trip by shunt/undervoltage release of mechanical life spanMain switch characteristics including positive drive to IEC/EN 60204, VDE 0113.Isolating characteristics to IEC/EN 60947-3, VDE 0660.N switch-disconnectors can be combined with NZMXU, NZMXA shunt releases, auxiliary contacts and NZMXR remote operator.For DC switching all 4 contacts must be connected in series -see information on jumper kit accessories.Operating with ungrounded systems (e.g., IT), the installation must prevent a double ground faultCannot be combined with plug-in/withdrawable units and/or connection on rear, neither with connection width extensions, module plates, or band terminals in UL489B applicationsN4-4S15-DC feeder unit and outgoer from the bottom

only.Suitable for 100%- rated application with enclosure minimum WxHxD of 1200 x 600 x 275 mmNo overcurrent protection.Rated current = rated uninterrupted current: 800 A include jumpers at 65 °C Branch circuits, feeder circuitsOpen areasUtility buildings
1
0 kA
0 V
800 A
0 A
0 A
34 kA
0 kW
Rocker lever
60
Screw connection,Optional:Tunnel terminal,Rear-side connection,Strip connection
1000 V DC
M10 at rear-side screw connection Min. 25 mm x 5 mm direct at switch rear-side connection 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 Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate 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. 80 mm x 10 mm (2x) at rear-side width extension NA: same as for IEC

123 mm² - 185 mm² (1x) direct at switch rear-side connection 50 mm² - 185 mm² (4x) direct at switch rear-side connection Min. 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate Max. 95 mm² - 300 mm² (2x) at rear-side 1-hole module plate Min. 95 mm² - 185 mm² (2x) at rear-side 2-hole module Max. 35 mm² - 185 mm² (4x) at rear-side 2-hole

TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)

module plate 50 mm² - 240 mm² (4x) at 4hole tunnel terminal 300 mm² (4x) at rear-side width extension 95 mm² - 240 mm² (6x) at rear-side width extension NA: kcmil 250 - kcmil 350 (1x) direct at switch rearside connection NA: AWG 0 - kcmil 350 (4x) direct at switch rear-side connection NA: min. kcmil 250 - kcmil 600 (1x) at rear-side 1-hole module plate NA: max. AWG 3/0 - kcmil 600 (2x) at rear-side 1-hole module plate NA: min. AWG 3/0 - kcmil 350 (2x) at rear-side 2-hole module plate NA: max. AWG 2 - kcmil 350

(4x) at rear-side 2-hole module plate NA: AWG 0- kcmil 500 (4x) at 4-hole tunnel terminal NA: kcmil 600 mm² (4x) at rear-side width extension NA: AWG 3/0 - kcmil 500 (6x) at rear-side width extension

TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)

Min. 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate Max. 70 mm² - 185 mm² (2x) at rear-side 1-hole module plate 50 mm² (4x) at rear-side 2hole module plate 240 mm² (2x) at rear-side width extension 70 mm² - 240 mm² (6x) at rear-side width extension NA: aluminum conductor not applicable

PROJECT	NAME:
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PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc

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