

Specifications



Photo is representative

Eaton 259736

Eaton Moeller series NZM Shunt release, 24VAC/DC, for NZM1, L

General specifications

PRODUCT NAME	Eaton Moeller series NZM Shunt release
CATALOG NUMBER	259736
MODEL CODE	NZM1-XAL24AC/DC
EAN	4015082597368
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT	66 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.044 kg
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	CSA (File No. 22086) UL489 UL listed CSA (Class No. 1437-01) UL (Category Control Number DIHS) IEC60947 UL (File No. E140305) CE marking CSA-C22.2 No. 5-09 CSA certified



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Delivery programme

FRAME	NZM1
SPECIAL FEATURES	• Switches are tripped by a voltage pulse or by the application of uninterrupted voltage. • If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. • Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
SUITABLE FOR	Off-load switch
TYPE	• Accessory • Shunt release
USED WITH	NZM1(-4), N(S)1(-4)

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

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

ELECTRIC CONNECTION TYPE	Screw connection
FREQUENCY RATING	50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release)
MINIMUM COMMAND TIME - MAX	15 ms
MINIMUM COMMAND TIME - MIN	10 ms
PICK-UP POWER CONSUMPTION (SHUNT RELEASE)	2.5 VA/W
RATED CONTROL SUPPLY VOLTAGE	24 V AC/DC
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED CONTROL VOLTAGE (RELAY CONTACTS)	24 V DC 24 V AC
REACTION TIME	20 ms
TIME ON DUTY - MAX	∞
VOLTAGE RATING	0.7 - 1.1 x Us
VOLTAGE RATING AT AC (X US) - MAX	1.1
VOLTAGE RATING AT AC (X US) - MIN	0.7
VOLTAGE TYPE	AC/DC

Technical data - mechanical

CONNECTION TYPE	With 3 m connection cable instead of screw termination
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0

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Technical data - mechanical - terminals

TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)

0.75 mm² - 2.5 mm² (2x)
for undervoltage releases,
off-delayed with ferrule
18 - 14 AWG (2x) for
undervoltage releases, off-
delayed
0.75 mm² - 2.5 mm² (1x) at
shunt release with ferrule
18 - 14 AWG (1x) for
undervoltage releases, off-
delayed
18 - 14 AWG (2x) at shunt
release
0.75 mm² - 2.5 mm² (2x) at
shunt release with ferrule
0.75 mm² - 2.5 mm² (1x)
for undervoltage releases,
off-delayed with ferrule
18 - 14 AWG (1x) at shunt
release

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](#)

DRAWINGS

[eaton-circuit-breaker-
release-nzm-mccb-
dimensions.eps](#)

[eaton-circuit-breaker-
undervoltage-nzm-mccb-
3d-drawing-003.eps](#)

ECAD MODEL

[DA-CE-ETN.NZM1-
XAL24AC_DC](#)

INSTALLATION INSTRUCTIONS

[eaton-circuit-breaker-
nzm1-xa-xahiv-xhiv-xu-
xuhiv-il01203002z.pdf](#)

INSTALLATION VIDEOS

[The new digital NZM
Range](#)

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

MCAD MODEL

[eaton-int-tripping-acc-
mcad-drawings-nzm1-
xhivl.dwg](#)

[eaton-int-tripping-acc-
mcad-3d-models-nzm1-
xhivl.stp](#)

TECHNICAL DATA SHEETS

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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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