

Specifications



Photo is representative

Eaton 259810

Eaton Moeller series NZM Shunt release,
24VAC/DC, +1early N/O, for NZM2/3

General specifications

PRODUCT NAME	Eaton Moeller series NZM Shunt release
CATALOG NUMBER	259810
MODEL CODE	NZM2/3-XAHIV24AC/DC
EAN	4015082598105
PRODUCT LENGTH/DEPTH	42 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.1 kg
COMPLIANCES	IEC UL/CSA RoHS conform
CERTIFICATIONS	UL (Category Control Number DIHS) CSA-C22.2 No. 5-09 CE marking UL489 UL listed CSA certified CSA (Class No. 1437-01) UL (File No. E140305) CSA (File No. 22086) IEC60947
GLOBAL CATALOG	259810

Product specifications

USED WITH	NZM3(-4), N(S)3(-4) NZM2(-4), N(S)2(-4)
VOLTAGE RATING	0.7 - 1.1 x Us
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.

Resources

BROCHURES	eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf eaton-digital-nzm-brochure-br013003en-en-us.pdf
CATALOGS	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
DRAWINGS	eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-002.eps
ECAD MODEL	DA-CE-ETN.NZM2_3-XAHIV24AC_DC
INSTALLATION INSTRUCTIONS	eaton-circuit-breaker-voltage-release-nzm2-3-il012141zu.pdf
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM The new digital NZM Range
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

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.
ELECTRIC CONNECTION TYPE	Screw connection
FITTED WITH:	Early-make auxiliary contact
FRAME	NZM2/3
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
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
REACTION TIME	20 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	24 V

VOLTAGE (US) AT AC, 50 HZ - MIN	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	24 V
SUITABLE FOR	Off-load switch
CONNECTION TYPE	With bolt connection
VOLTAGE TYPE	AC/DC
TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 18 - 14 AWG (1x) at shunt release
TYPE	• Accessory • Shunt release
SPECIAL FEATURES	• Cannot be used in conjunction with NZM...-XR... remote operator. • If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. • Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. • Shunt releases cannot be installed

simultaneously
with NZM...-XHIV...
early-make
auxiliary contact or
NZM...-XU...
undervoltage
release.

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MAX** 24 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MIN** 24 V

**VOLTAGE RATING AT AC
(X US) - MAX** 1.1

**VOLTAGE RATING AT AC
(X US) - MIN** .7

**NUMBER OF CONTACTS
(NORMALLY CLOSED
CONTACTS)** 0

**NUMBER OF CONTACTS
(CHANGE-OVER
CONTACTS)** 0

**UNDELAYED SHORT-
CIRCUIT RELEASE - MIN** 0 A

**UNDELAYED SHORT-
CIRCUIT RELEASE - MAX** 0 A

TIME ON DUTY - MAX ∞

**RATED CONTROL
VOLTAGE (RELAY
CONTACTS)** 24 V DC
24 V AC

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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