

Specifications



Photo is representative

Eaton 259748

Eaton Moeller series NZM Shunt release,
480-525VAC/DC, for NZM1

General specifications

PRODUCT NAME	Eaton Moeller series NZM Shunt release
CATALOG NUMBER	259748
MODEL CODE	NZM1-XAL480-525AC/DC
EAN	4015082597481
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT	66 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.044 kg
COMPLIANCES	IEC UL/CSA RoHS conform

Product specifications

USED WITH	NZM1(-4), N(S)1(-4)
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	Does not apply, since the entire switchgear needs to

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
ECAD MODEL	DA-CE-ETN.NZM1-XAL480-525AC_DC
INSTALLATION VIDEOS	The new digital NZM Range Introduction of the new digital circuit breaker NZM
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

ASSEMBLIES	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
FRAME	NZM1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	525 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	480 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	525 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	480 V
SUITABLE FOR	Off-load switch
VOLTAGE TYPE	AC
TYPE	• Accessory • Shunt release
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.

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	525 V
--	-------

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

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
--	-----

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc

Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

