

Specifications

Eaton 189751

Eaton Moeller series NZM Undervoltage release for NZM2/3, 48AC, Push-in terminals



Photo is representative



General specifications

PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	189751
MODEL CODE	NZM2/3-XU48AC-PI
EAN	4015081877461
PRODUCT LENGTH/DEPTH	115 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	75 mm
PRODUCT WEIGHT	0.08 kg
COMPLIANCES	UL/CSA IEC RoHS conform

Delivery programme

FRAME	NZM2/3
SPECIAL FEATURES	• Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% US. • For use with emergency-stop devices in connection with an emergency-stop button. • When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. • Undervoltage release modules cannot be installed simultaneously with early-make contact NZM...-XHIV, shunt release NZM...-XA... or relais modules NZM...-X2A...
SUITABLE FOR	Motor safety switch Off-load switch
TYPE	Undervoltage release
USED WITH	NZM3(-4), N(S)3(-4) NZM2(-4), N(S)2(-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
RATED CONTROL SUPPLY VOLTAGE	48 V 50/60 Hz
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	48 V
VOLTAGE TYPE	AC

Technical data - mechanical

CONNECTION TYPE	With push in terminal
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0

SPECIAL FEATURES

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- For use with emergency-stop devices in connection with an emergency-stop button.
- When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is

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- prevented when switched on.
- Undervoltage release modules cannot be installed simultaneously with early-make contact NZM...-XHIV, shunt release NZM...-XA... or relais modules NZM...-X2A...
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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
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
MCAD MODEL	eaton-int-tripping-acc-mcad-3d-models-nzm2-3-xua-pi.stp
	eaton-int-tripping-acc-mcad-drawings-nzm2-3-xua-pi.dwg
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet
WIRING DIAGRAMS	eaton-circuit-breaker-symbol-nzm-mccb-wiring-diagram.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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