

Specifications

Eaton 259608



Photo is representative

Eaton Moeller series NZM - Molded Case Circuit Breaker. Undervoltage release, 110-130VDC, +2early N/O, 2/3

General specifications

PRODUCT NAME	Eaton Moeller series NZM - Molded case circuit breaker
CATALOG NUMBER	259608
MODEL CODE	NZM2/3-XUHIV110-130DC
EAN	4015082596088
PRODUCT LENGTH/DEPTH	42 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.074 kg
COMPLIANCES	IEC UL/CSA RoHS conform
CERTIFICATIONS	UL (Category Control Number DIHS) IEC60947 CSA-C22.2 No. 5-09 CSA (Class No. 1437-01) UL489 UL (File No. E140305) CSA (File No. 22086) CE marking UL listed CSA certified
GLOBAL CATALOG	259608
PRODUCT TYPE	Molded case circuit breaker

Product specifications

USED WITH	NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-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 ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND	Meets the product

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
ECAD MODEL	ETN.NZM2_3-XUHIV110-130DC
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-drawings-nzm2-3-xuhiv20-lk.dwg eaton-int-tripping-acc-mcad-3d-models-nzm2-3-xuhiv20-lk.stp
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 259608
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

CREEPAGE DISTANCES	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:	Two early-make auxiliary contacts
FRAME	NZM2/3
MINIMUM COMMAND TIME - MAX	15 ms
MINIMUM COMMAND TIME - MIN	10 ms
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2
REACTION TIME	19 ms
PICK-UP POWER CONSUMPTION AT AC (UNDERVOLTAGE RELEASE)	1.5 VA
PICK-UP POWER CONSUMPTION AT DC (UNDERVOLTAGE RELEASE)	0.8 W
VOLTAGE TOLERANCE - MAX	1.1
VOLTAGE TOLERANCE - MIN	0.85
RATED CONTROL SUPPLY VOLTAGE	110 - 130 V DC
SUITABLE FOR	Off-load switch Power circuit breaker
CONNECTION TYPE	With bolt connection
VOLTAGE TYPE	DC

DROP-OUT VOLTAGE OF UNDervOLTAGE RELEASE AC/DC - MAX		0.7 x Us
DROP-OUT VOLTAGE OF UNDervOLTAGE RELEASE AC/DC - MIN		0.35 x Us
TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	0.75 mm ² - 2.5 mm ² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off- delayed 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (2x) for undervoltage releases, off- delayed 0.75 mm ² - 2.5 mm ² (1x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) at shunt release	
TYPE	• Accessory • Undervoltage release with early- make auxiliary contact	
SPECIAL FEATURES	• Undervoltage release with 2 early-make auxiliary contacts, e.g., for early-make connection of undervoltage release in main switch applications, as well as for interlock and load shedding circuits. • 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.
	• Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms
	• Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
	• Cannot be used in conjunction with NZM...-XR... remote operator.

POWER CONSUMPTION	1.5 VA (sealing AC) 0.8 W (sealing DC)
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	130 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	110 V
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
RATED CONTROL VOLTAGE (RELAY CONTACTS)	110 V DC 130 V DC

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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