Specifications



Eaton 266451

Eaton Moeller series NZM - Molded Case Circuit Breaker. Shunt release, 208-240VAC/DC, 4

General specifications	
PRODUCT NAME	Eaton Moeller series NZM - Molded case circuit breaker
CATALOG NUMBER	266451
MODEL CODE	NZM4-XA208-250AC/DC
EAN	4015082664510
PRODUCT LENGTH/DEPTH	107 mm
PRODUCT HEIGHT	51 mm
PRODUCT WIDTH	64 mm
PRODUCT WEIGHT	0.256 kg
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	CSA (File No. 22086) UL (File No. E140305) UL (Category Control Number DIHS) CE marking IEC60947 UL listed CSA (Class No. 1437-01) UL489 CSA-C22.2 No. 5-09 CSA certified

Delivery program

FRAME	NZM4
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	NZM4(-4), N(S)4(-4)

Design verification as per 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 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.

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	208 - 250 V AC/DC
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	208 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	208 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	208 V
RATED CONTROL VOLTAGE (RELAY CONTACTS)	250 V DC 208 V DC 250 V AC 208 V AC
REACTION TIME	22 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 bolt connection
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0
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.

Technical data - mechanical - terminals

TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 18 - 14 AWG (1x) at shunt release 18 - 14 AWG (2x) at shunt release 0.75 mm² - 2.5 mm² (1x) at shunt release 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 (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed

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-auxiliary-contact-nzm-shunt-release-3d-drawing.eps
ECAD MODEL	DA-CE-ETN.NZM4-XA208-250AC_DC
INSTALLATION INSTRUCTIONS	eaton-circuit-breaker-voltage-release-nzm4-il01210005z.pdf eaton-circuit-breaker-voltage-release-nzm4-il012143zu.pdf
INSTALLATION VIDEOS	The new digital NZM Range Introduction of the new digital circuit breaker NZM
MCAD MODEL	eaton-int-tripping-acc-mcad-drawings-nzm4-xuav.dwg eaton-int-tripping-acc-mcad-3d-models-nzm4-xuav.stp
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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