

Specifications



Photo is representative

Eaton 259780

Eaton Moeller series NZM Shunt release, 110-130VAC/DC, +1early N/O, for NZM1

General specifications

PRODUCT NAME	Eaton Moeller series NZM Shunt release
CATALOG NUMBER	259780
MODEL CODE	NZM1-XAHIV110-130AC/DC
EAN	4015082597801
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT	66 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.044 kg
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	CSA certified CSA (Class No. 1437-01) UL (Category Control Number DIHS) UL (File No. E140305) IEC60947 UL listed UL489 CSA (File No. 22086) CSA-C22.2 No. 5-09 CE marking



Powering Business Worldwide

Product specifications

USED WITH	NZM1(-4), N(S)1(-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.
10.3 DEGREE OF	Does not apply, since the

Resources

	eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf
BROCHURES	eaton-digital-nzm-brochure-br013003en-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
DRAWINGS	eaton-circuit-breaker-release-nzm-mccb-dimensions.eps eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-004.eps
ECAD MODEL	ETN.259780.edz
INSTALLATION INSTRUCTIONS	eaton-circuit-breaker-nzm1-xa-xahiv-xhiv-xu-xuhiv-il01203002z.pdf
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM The new digital NZM Range
MCAD MODEL	DA-CD-nzm1_xu DA-CS-nzm1_xu
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

PROTECTION OF ASSEMBLIES	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	NZM1
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	110 - 130 V AC/DC
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	130 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50	110 V

HZ - MIN	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	130 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	110 V
SUITABLE FOR	Power circuit breaker Off-load switch
CONNECTION TYPE	With terminal block on the left-hand switch side
VOLTAGE TYPE	AC
TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	<p>18 - 14 AWG (1x) at shunt release</p> <p>18 - 14 AWG (1x) for undervoltage releases, off-delayed</p> <p>0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule</p> <p>0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule</p> <p>18 - 14 AWG (2x) at shunt release</p> <p>18 - 14 AWG (2x) for undervoltage releases, off-delayed</p> <p>0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule</p> <p>0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule</p>
TYPE	<ul style="list-style-type: none"> • Accessory • Shunt release
SPECIAL FEATURES	<ul style="list-style-type: none"> • 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	130 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	110 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)	110 V DC 130 V AC 130 V DC 110 V AC

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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