Specifications

Photo is representative

Eaton 284389

Eaton Moeller series NZM Undervoltage release, 110-130VAC +2early N/O, for NZM1

General specifications

PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	284389
MODEL CODE	NZM1-XUHIV20KL110-130AC
EAN	4015082843892
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT	66 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.056 kg
WARRANTY	Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	CSA certified CSA (File No. 22086) IEC60947 UL listed UL (File No. E140305) UL489 CE marking CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) CSA (Class No. 1437-01)
GLOBAL CATALOG	284389

Powering Business Worldwide

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-digital-nzm-brochure-br013003en-en-us.pdf eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf
CATALOGS	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
DRAWINGS	eaton-circuit-breaker-release-nzm-mccb-dimensions.eps eaton-circuit-breaker-contact-nzm-mccb-3d-drawing-004.eps
ECAD MODEL	ETN.NZM1-XUHIV20KL110-130AC
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
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
FITTED WITH:	Two separate early-make auxiliary contacts
FRAME	NZM1
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	.85
RATED CONTROL SUPPLY	110 - 130 V 50/60 Hz

VOLTAGE	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	130 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	110 V
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	Off-load switch
CONNECTION TYPE	Coil terminals wired to terminal block Auxiliary contact terminals with 3 m of loose connection cables
CONNECTION	Screw
VOLTAGE TYPE	AC
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)	18 - 14 AWG (2x) for undervoltage releases, off-delayed 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.75 mm^2 - 2.5 mm^2 (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) at shunt release 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 (2x) at shunt release 0.75 mm^2 - 2.5 mm^2 (1x) at shunt release with ferrule
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 • Cannot be used in conjunction with NZM...-XR... remote operator. • Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
POWER CONSUMPTION	1.5 VA (sealing AC) 0.8 W (sealing DC)
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 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
RATED CONTROL VOLTAGE (RELAY CONTACTS)	130 V AC 110 V AC

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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