

Specifications



Photo is representative



Eaton 189725

Eaton Moeller series NZM Undervoltage release for NZM2/3, configurable relays, 2NO, 24DC, Push-in terminals

General specifications

PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	189725
MODEL CODE	NZM2/3-XU2A24DC
EAN	4015081877201
PRODUCT LENGTH/DEPTH	115 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	75 mm
PRODUCT WEIGHT	0.08 kg
COMPLIANCES	UL/CSA IEC RoHS conform
CERTIFICATIONS	CSA (Class No. 1437-01) CSA (File No. 22086) UL (File No. E140305) UL listed UL (Category Control Number DIHS) CSA-C22.2 No. 5-09 UL489 CSA certified CE marking IEC60947
GLOBAL CATALOG	189725

Product specifications

USED WITH	PXR20(25) NZM3(-4)-..X... PXR20(25) NZM2(-4)-..X...
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

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
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
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet
WIRING DIAGRAMS	eaton-circuit-breaker-symbol-nzm-mccb-wiring-diagram.eps eaton-circuit-breaker-nzm-mccb-wiring-diagram-002.eps

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	Spring clamp connection
FRAME	NZM2/3
POLLUTION DEGREE	2
MINIMUM COMMAND TIME - MAX	15 ms
MINIMUM COMMAND TIME - MIN	10 ms
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF RELAYS	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 VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED INSULATION VOLTAGE (UI)	250 V
STRIP LENGTH	8 mm (relay contact connection)
SWITCHING CAPACITY (REFERENCE VALUE) - MIN	0.1 mA / 0.1 VDC
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV AC
SUITABLE FOR	Motor safety switch Off-load switch
CONNECTION TYPE	With push in terminal
VOLTAGE TYPE	DC
DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MAX	0.7 x Us
OVERVOLTAGE CATEGORY	II
RATED OPERATIONAL CURRENT	1 A (110 V AC-1, relay contacts) 1 A (230 V AC-1, relay contacts) 1 A (24 V DC-1, relay contacts) 1 A (24 V AC-1, relay contacts)
DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MIN	0.35 x Us
TYPE	Accessory Undervoltage release Undervoltage release with two relays
SPECIAL FEATURES	Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70% Us For use with emergency-

stop devices in connection with an emergency-stop button For signaling commands or different states of the circuit-breaker Two relays per unit The activation criteria can be configured in the trip unit Configuration via communication, circuit breaker display, front USB port and Eaton Power Xpert Protection Manager When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on Only for use with circuit-breakers with electronic trips Under-voltage trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHIV, under-voltage trip NZM...-XU... or shunt trip NZM...-XA Push-in clamp relay contacts for control wiring Relays can be used for controlling remote operator with $U_s=208-204$ V AC Cannot be used with the PXR10 NZM-AX electronic trip

POWER CONSUMPTION	0.8 W (sealing DC) 1.5 VA (sealing AC)
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 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

TERMINAL CAPACITY (STRANDED CABLE)	0.25 mm ² - 1.5 mm ² (1x) for undervoltage release
	0.25 mm ² - 1.5 mm ² (1x) at shunt release
	24 - 16 AWG (1x) at shunt release
	24 - 16 AWG (1x) for undervoltage release
	0.25 mm ² - 0.75 mm ² (1x) for undervoltage release
	0.25 mm ² - 0.75 mm ² (1x) for undervoltage release with uninsulated end sleeve in accordance with DIN46228 / 1
TERMINAL CAPACITY (SOLID CABLE)	0.25 mm ² - 1.5 mm ² (1x) for undervoltage release with insulated end sleeve in accordance with DIN46224 / 4
	0.2 mm ² - 1.5 mm ² (1x) for undervoltage release
RATED CONTROL VOLTAGE (RELAY CONTACTS)	0.2 mm ² - 1.5 mm ² (1x) at shunt release
	24 V AC
	240 V AC
	24 V DC

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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