

Specifications



Eaton 189732

Eaton Moeller series NZM Undervoltage release for NZM2/3, configurable relays, 2NO, 1 early-make auxiliary contact, 1NO, 24AC, Push-in terminals

General specifications

PRODUCT NAME	Eaton Moeller series NZM Undervoltage release
CATALOG NUMBER	189732
MODEL CODE	NZM2/3-XUHIV2A24AC
EAN	4015081877270
PRODUCT LENGTH/DEPTH	115 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	75 mm
PRODUCT WEIGHT	0.08 kg
COMPLIANCES	IEC UL/CSA RoHS conform
CERTIFICATIONS	UL489 UL listed CSA (File No. 22086) UL (File No. E140305) CSA (Class No. 1437-01) UL (Category Control Number DIHS) CE marking IEC60947 CSA-C22.2 No. 5-09 CSA certified
GLOBAL CATALOG	189732

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	The new digital NZM Range Introduction of the new digital circuit breaker NZM
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet
WIRING DIAGRAMS	eaton-circuit-breaker-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	Screw connection
FITTED WITH:	Early-make auxiliary contact and 2 relays
FRAME	NZM2/3
POLLUTION DEGREE	2
MINIMUM COMMAND TIME - MAX	15 ms
MINIMUM COMMAND TIME - MIN	10 ms
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	3
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	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	24 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	AC
DROP-OUT VOLTAGE OF UNDERVOLTAGE RELEASE AC/DC - MAX	0.7 x Us
OVERVOLTAGE CATEGORY	II
RATED OPERATIONAL CURRENT	1 A (24 V AC-1, relay contacts) 1 A (24 V DC-1, relay contacts) 1 A (110 V AC-1, relay contacts) 1 A (230 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 early-make auxiliary contact and two relays
SPECIAL FEATURES	For interlock circuits, load-

	shedding circuits, make-before-break interruption of shunt trip for primary breaker use Instantaneous shut-off NZM breaker at control voltage below 35-70% Us For emergency-stop devices with an emergency-stop button For breaker's signaling commands/different states 2 relays/unit Trip unit config of activation criteria Config by communication/breaker display/front USB port/Eaton Power Xpert Protection Manager Switched off under-voltage trip: accidental contact with breaker's primary contacts is prevented when switched on Auxiliary contact make-before-break activation when manual switching on and off: ~20 ms(NZM2/3)/90 ms(NZM4) For use with electronic trip breakers except NZM...-XR... Under-voltage trip relay modules incompatible with NZM...-XHIV, NZM...-XU..., NZM...-XA. Trip unit controlled relay coil Push-in clamp relay contacts for control wiring. Relays use for controlling remote operator at Us=208-204 V AC Incompatible with PXR10 NZM-AX
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)	0

CONTACTS)	
UNDELAYED SHORT-CIRCUIT RELEASE - MIN	0 A
UNDELAYED SHORT-CIRCUIT RELEASE - MAX	0 A
TERMINAL CAPACITY (STRANDED CABLE)	0.25 mm ² - 0.75 mm ² (1x) for undervoltage release 0.25 mm ² - 1.5 mm ² (1x) for undervoltage release with insulated end sleeve in accordance with DIN46224 / 4 0.25 mm ² - 0.75 mm ² (1x) for undervoltage release with uninsulated end sleeve in accordance with DIN46228 / 1 0.25 mm ² - 1.5 mm ² (1x) at shunt release 24 - 16 AWG (1x) for undervoltage release 0.25 mm ² - 1.5 mm ² (1x) for undervoltage release 24 - 16 AWG (1x) at shunt release
TERMINAL CAPACITY (SOLID CABLE)	0.2 mm ² - 1.5 mm ² (1x) for undervoltage release 0.2 mm ² - 1.5 mm ² (1x) at shunt release
RATED CONTROL VOLTAGE (RELAY CONTACTS)	24 V AC 24 V DC 240 V AC

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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