

Specifications



Eaton 189836

Eaton Moeller series NZM Internal communication module, RS485, Modbus RTU, suitable for NZM

General specifications

PRODUCT NAME	Eaton Moeller series NZM electronic accessory
CATALOG NUMBER	189836
MODEL CODE	PXR-RCAM-MRTU-I
EAN	4015081878314
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	68 mm
PRODUCT WEIGHT	0.008 kg
COMPLIANCES	UL/CSA IEC RoHS conform

Delivery programme

ACCESSORY/SPARE PART TYPE

Communication and measuring function
Communications module
Accessory

FRAME

NZM2/3/4

SPECIAL FEATURES

- Baud Rates 9600, 19200, 38400, 57600 (default 19200)
- For the Fieldbus connection.
- The module is mounted in the right hand accessory pocket of the circuit breaker.
- For connection to Modbus RTU.
- RS485 interface
- Cannot be used with the PXR10 NZM-AX electronic trip.

TYPE

Communications module

USED WITH

NZM2(3)(4)(-4)-
VX(MX)(PX)(PMX)

Design verification to 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

Does not apply, since the

AGAINST ELECTRIC SHOCK	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 - communication

COMMUNICATION ADDRESS RANGE	001 - 247 (default 002)
FIELD BUS TYPE	Customer-wired standard Modbus connection
INTERFACE TYPE (FIELD BUS)	Modbus RTU / RS485
PARITY	Even, uneven, unavailable (default)
PARTICIPANT TYPE	Slave
STOP BIT	1, 2 (default 1)

Technical data - mechanical

CONNECTION TYPE	Pre-wired connection (communication, NZM connection) Push-In (supply connection, rated control voltage)
SPECIAL FEATURES	• Baud Rates 9600, 19200, 38400, 57600 (default 19200) • For the Fieldbus connection. • The module is mounted in the right hand accessory pocket of the circuit breaker. • For connection to Modbus RTU. • RS485 interface • Cannot be used with the PXR10 NZM-AX electronic trip.
STRIP LENGTH	6 mm (supply connection)

Technical data - mechanical - terminals

TERMINAL CAPACITY (SOLID CABLE)	0.2 mm ² - 0.5 mm ² (1x) at supply connection
TERMINAL CAPACITY (STRANDED CABLE)	AWG 24 - AWG 20 (1x) at supply connection 0.25 mm ² - 0.5 mm ² (1x) at supply connection (uninsulated ferrule according to DIN46224 / 1) 0.2 mm ² - 0.5 mm ² (1x) at supply connection

Resources

BROCHURES	eaton-digital-nzm-brochure-br013003en-en-us.pdf eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
INSTALLATION INSTRUCTIONS	eaton-internal-communication-connection-prx-il012104zu.pdf
INSTALLATION VIDEOS	The new digital NZM Range Introduction of the new digital circuit breaker NZM
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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