

Specifications



Photo is representative



Eaton 189832

Eaton Moeller series NZM Interface module for NZM2 PXR25, connection for communication, zone selectivity, ARMS

General specifications

PRODUCT NAME	Eaton Moeller series NZM electronic accessory
CATALOG NUMBER	189832
MODEL CODE	NZM2-XBSM-TZ
EAN	4015081878277
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	68 mm
PRODUCT WEIGHT	0.021 kg
COMPLIANCES	IEC UL/CSA RoHS conform

Delivery programme

ACCESSORY/SPARE PART TYPE

Communication and measuring function
Interface module
Accessory

FRAME

NZM2

SPECIAL FEATURES

- For universal connection of optional circuit breaker functions.
- Required for communication
- The connection types depend on the design of the interface module.
- Circuit breaker status detection (I, +, 0) for the electronic trip unit.
- The switch's status can be communicated.
- 24 V DC auxiliary power connection.
- Connection for Communications Adapter Module (CAM).
- Optional CAM available for various Fieldbus communication systems (Profibus DP, SmartWire-DT, Ethernet-based Fieldbus).
- Connection to optional, internal Modbus RTU module.
- Connector for Logical Zone Selectivity (ZSI) function.
- Mechanical pass-through of the switch's status (I, O) for use by the remote operator.

TYPE

Interface module

USED WITH

NZM2(-4)-PX...-TZ

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 - electrical

CONTROL VOLTAGE TOLERANCE +/- 20%

CURRENT CONSUMPTION - MAX 100 mA

VOLTAGE RATING 24 V DC

Technical data - mechanical

CONNECTION TYPE

Push-in (Logical Zone Selectivity (ZSI) connection)
5-pin plug connector (CAM connection)
Cable (Logical Zone Selectivity (ZSI) connection, connection technique)
With bolt connection
With push in terminal
Assembled CAM cable (Supply connection, Digital-input)
Pre-wired cable to the Modbus module (internal COM connection)
Screw terminal (supply connection, rated control voltage)
10-pin plug connector (internal COM connection)

DEGREE OF PROTECTION

Installation in the switch

SPECIAL FEATURES

- For universal connection of optional circuit breaker functions.
- Required for communication
- The connection types depend on the design of the interface module.
- Circuit breaker

-
- status detection (I, +, O) for the electronic trip unit.
 - The switch's status can be communicated.
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 - Connection for Communications Adapter Module (CAM).
 - Optional CAM available for various Fieldbus communication systems (Profibus DP, SmartWire-DT, Ethernet-based Fieldbus).
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STRIP LENGTH

5 mm (supply connection), 6 mm (digital input)

Technical data - mechanical - terminals

TERMINAL CAPACITY (SOLID CABLE)

0.2 mm² - 1.5 mm² (1x) at
supply connection
0.2 mm² - 0.5 mm² (1x) at
logical zone selectivity (ZSI)
connection

TERMINAL CAPACITY (STRANDED CABLE)

0.25 mm² - 0.75 mm² (1x)
at supply connection
(insulated ferrule
according to DIN46224 / 4)

0.25 mm² - 0.75 mm² (1x)
at supply connection
(uninsulated ferrule
according to DIN46224 / 1)

0.2 mm² - 0.5 mm² (1x) at
digital input of supply
connection
0.2 mm² - 1.5 mm² (1x) at
supply connection
24 - 16 AWG (1x) at supply
connection
0.25 mm² - 0.5 mm² (1x) at
logical zone selectivity
connection with
uninsulated ferrule
according to DIN46228 / 1

TIGHTENING TORQUE

≤ 0.25 Nm
≥ 0.22 Nm

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-circuit-breaker-
interface-module-nzm-
xbsm-il012102zu.pdf](#)

INSTALLATION VIDEOS

[Introduction of the new
digital circuit breaker NZM](#)

[The new digital NZM
Range](#)

TECHNICAL DATA SHEETS

[eaton-nzm-technical-
information-sheet](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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