

Specifications



Photo is representative



Eaton 189833

Eaton Moeller series NZM Interface module for NZM3 PXR25, connection for communication, zone selectivity, ARMS

General specifications

PRODUCT NAME	Eaton Moeller series NZM electronic accessory
CATALOG NUMBER	189833
MODEL CODE	NZM3-XBSM-TAZ
EAN	4015081878284
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	68 mm
PRODUCT WEIGHT	0.021 kg
COMPLIANCES	UL/CSA IEC RoHS conform



Powering Business Worldwide

Delivery programme

ACCESSORY/SPARE PART TYPE

Communication and measuring function
Interface module
Accessory

FRAME

NZM3

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.
- Connection for maintenance mode (ARMS)

TYPE

Interface module

USED WITH

NZM3(-4)-PX...-TAZ

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

OVERLOAD PROOF OF DIGITAL SEMI-CONDUCTOR OUTPUTS	Yes (Connection for maintenance mode (ARMS))
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Technical data - electrical

CONTROL VOLTAGE TOLERANCE	+/- 20%
CURRENT CONSUMPTION - MAX	100 mA
OUTPUT VOLTAGE	3.3 V DC (connection for maintenance mode (ARMS), digital output)
VOLTAGE RATING	24 V DC

Technical data - mechanical

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

DEGREE OF PROTECTION	Installation in the switch
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NUMBER OF MAINTENANCE CONNECTIONS	1
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- 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

Technical data - mechanical - terminals

TERMINAL CAPACITY (SOLID CABLE)

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

TERMINAL CAPACITY (STRANDED CABLE)

0.2 mm² - 0.5 mm² (1x) at
digital input of supply
connection
0.2 mm² - 1.5 mm² (1x) at
supply connection
0.25 mm² - 0.5 mm² (1x) at
connection for
maintenance mode with
uninsulated ferrules
according to DIN46228 / 1
0.25 mm² - 0.75 mm² (1x)
at supply connection
(insulated ferrule
according to DIN46224 / 4)

0.2 mm² - 0.5 mm² (1x) at
relay output of supply
connection
0.25 mm² - 0.75 mm² (1x)
at supply connection
(uninsulated ferrule
according to DIN46224 / 1)

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

TIGHTENING TORQUE

≥ 0.22 Nm
≤ 0.25 Nm

	systems (Profibus DP, SmartWire-DT, Ethernet-based Fieldbus). • Connection to optional, internal Modbus RTU module. • Connector for Logical Zone Selectivity (ZSI) function. • Connection for maintenance mode (ARMS)
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STRIP LENGTH	5 mm (supply connection), 6 mm (digital input), 6 mm (relay output)
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Resources

BROCHURES	eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf eaton-digital-nzm-brochure-br013003en-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	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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