

Specifications



Photo is representative



Eaton 189825

Eaton Moeller series NZM Interface module for NZM2 PXR20, connection for communication

General specifications

PRODUCT NAME	Eaton Moeller series NZM electronic accessory
CATALOG NUMBER	189825
MODEL CODE	NZM2-XBSM
EAN	4015081878208
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	68 mm
PRODUCT WEIGHT	0.021 kg
COMPLIANCES	UL/CSA IEC RoHS conform

Delivery programme

ACCESSORY/SPARE PART TYPE	Interface module Communication and measuring function 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. • Mechanical pass-through of the switch's status (I, O) for use by the remote operator.
TYPE	Interface module
USED WITH	NZM2(-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 - electrical

CONTROL VOLTAGE TOLERANCE +/- 20%

CURRENT CONSUMPTION - MAX 100 mA

VOLTAGE RATING 24 V DC

Technical data - mechanical

CONNECTION TYPE	Screw terminal (supply connection, rated control voltage) Assembled CAM cable (Supply connection, Digital-input) 5-pin plug connector (CAM connection) With bolt connection Pre-wired cable to the Modbus module (internal COM connection) With push in terminal 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, +, 0) for the electronic trip unit. • The switch's status can be communicated.
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Technical data - mechanical - terminals

TERMINAL CAPACITY (SOLID CABLE)	0.2 mm ² - 1.5 mm ² (1x) at supply connection
TERMINAL CAPACITY (STRANDED CABLE)	0.25 mm ² - 0.75 mm ² (1x) at supply connection (insulated ferrule according to DIN46224 / 4)
	24 - 16 AWG (1x) at supply connection
	0.25 mm ² - 0.75 mm ² (1x) at supply connection (uninsulated ferrule according to DIN46224 / 1)
	0.2 mm ² - 1.5 mm ² (1x) at supply connection
TIGHTENING TORQUE	≤ 0.25 Nm ≥ 0.22 Nm

- 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.
- Mechanical pass-through of the switch's status (I, O) for use by the remote operator.

STRIP LENGTH	5 mm (supply connection)
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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