Specifications

Eaton 189832

Catalog Number: 189832

Eaton Moeller series NZM - Molded Case Circuit Breaker. Interface module for NZM2 PXR25, connection for communication, zone selectivity, ARMS



General specifications

Product Name
Eaton Moeller series NZM electronic accessory

Catalog Number
189832

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

Powering Business Worldwide

Product specifications

Used with

NZM2(-4)-PX…-TZ

Type

Accessory Interface module

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.

Voltage rating

24 V DC

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.

Resources

Brochures

eaton-digital-nzm-brochure-br013003en-en-us.pdf

eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf

Catalogs

eaton-digital-nzm-catalog-ca013003en-en-us.pdf

Declarations of conformity

DA-DC-03_NZM2

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

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 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.

Frame

NZM2

Accessory/spare part type

Communication and measuring function

Interface module

Accessory

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)

Current consumption - max

100 mA

Strip length

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

Degree of protection

Installation in the switch

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

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

Tightening torque

≤ 0.25 Nm
≥ 0.22 Nm

Control voltage tolerance

+/- 20%



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