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Powering Business Worldwide

NZM2-XBSM-TZ - Interface module for NZM2 PXR25, connection for communication, zone selectivity, ARMS



189832 NZM2-XBSM-TZ

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189832 NZM2-XBSM-TZ

Interface module for NZM2 PXR25, connection for communication, zone selectivity, ARMS

Optional accessories for the circuit-breaker series NZM offers a comprehensive portfolio of application options for use world wide. The mounting is always flexible and easy thanks to the modular function groups. Notes: Breaker status modules - For multi purpose connection of optional circuit-breaker features. Required for communication. Type of connections depends on the version of the breaker status module. Detection of circuit-breaker status (I, +, 0) for the electronic release. Breaker status can be communicated. Auxiliary power supply connection for 2 x 24 V DC. Connection for communication adapter module (CAM). CAM available for various fieldbus communication systems (Profibus DP, SmartWire-DT, Ethernet based fieldbus). Connection to internal Modbus RTU module. Connection to Zone Selective Interlocking (ZSI). NZM3/4: Connection to arc reduction maintenance systems (ARMS).



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Delivery program

Product range

Accessories

Accessories

Interface module

Standard/Approval

UL/CSA, IEC

Construction size

NZM2

Description

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.
 Connection type
 with push in terminal
 With bolt connection
 For use with
 NZM2(-4)-PX...-TZ

Technical data

Supply connection
 Rated control voltage $[U_s]$ DC $[U_s]$
 24-24 V DC
 Rated control voltage $[U_s]$ Tolerance
 +/- 20%
 Rated control voltage $[U_s]$ max. current consumption
 100
 Rated control voltage $[U_s]$ Connection Connection type
 Screw terminal
 Rated control voltage $[U_s]$ Connection Stripping length
 5 mm
 Rated control voltage $[U_s]$ Connection Terminal capacity Solid
 1 x (0.2 - 1.5) mm²
 Rated control voltage $[U_s]$ Connection Terminal capacity Stranded
 1 x (0.2 - 1.5) mm²
 Rated control voltage $[U_s]$ Connection Terminal capacity
 1 x AWG 24 - AWG 16 AWG
 Rated control voltage $[U_s]$ Connection Terminal capacity with uninsulated end sleeve in accordance with DIN 46228 / 1
 1 x (0,25 - 0,75) mm²
 Rated control voltage $[U_s]$ Connection Terminal capacity with insulated end sleeve in accordance with DIN 46224 / 4
 1 x (0,25 - 0,75) mm²
 Rated control voltage $[U_s]$ Connection Terminal capacity Min. tightening torque
 0.22 Nm
 Rated control voltage $[U_s]$ Connection Terminal capacity Maximum tightening torque
 0.25 Nm
 CAM connection
 Connection technique
 5-pin plug connector
 Connection type
 assembled CAM cable
 Internal COM connection
 Connection technique
 10-pin plug connector
 Connection type
 pre-wired cable to the Modbus module
 Logical Zone Selectivity (ZSI) connection
 Connection technique
 Cable
 Connection type
 Push-in
 Stripping length
 6 mm
 Terminal capacity Solid
 1 x (0.2 - 0.5) mm²
 Terminal capacity Stranded
 1 x (0.2 - 0.5) mm²
 Terminal capacity with uninsulated end sleeve in accordance with DIN 46228 / 1
 1 x (0,25 - 0,5) mm²
 Connection for maintenance mode (ARMS)
 Digitale Halbleiterausgänge Connection type
 Push-in

Design verification as per IEC/EN 61439

IEC/EN 61439 design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 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 Insulation properties 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

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.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Accessories for low-voltage switch technology (EC002498)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Component for low-voltage switch technology (accessories) (ecl@ss10.0.1-27-37-13-92 [AKN570013])

Type of accessory

Communication and measuring function

Approvals

Product Standards

In preparation

Degree of Protection

Installation in the switch

Product photo



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Product photo

Photo



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Product photo

Photo



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Product photo

Photo

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