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Powering Business Worldwide

NZM3-XBSM-TAZ - Interface module for NZM3 PXR25, connection for communication, zone selectivity, ARMS

189833 NZM3-XBSM-TAZ

**Overview Specifications Resources**

# 189833 NZM3-XBSM-TAZ

Interface module for NZM3 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 maintanance systems (ARMS).

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals

## Delivery program

Product range
Accessories
Accessories
Interface module
Standard/Approval
UL/CSA, IEC
Construction size
NZM3
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.
Connection for maintenance mode (ARMS)
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
NZM3(-4)-PX…-TAZ

# 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 [$U_s$]ConnectionConnection type
Screw terminal
Rated control voltage [$U_s$]ConnectionStripping length
5 mm
Rated control voltage [$U_s$]ConnectionTerminal capacity Solid
1 x (0.2 - 1.5) mm$^2$
Rated control voltage [$U_s$]ConnectionTerminal capacity Stranded
1 x (0.2 - 1.5) mm$^2$
Rated control voltage [$U_s$]ConnectionTerminal capacity
1 x AWG 24 - AWG 16 AWG
Rated control voltage [$U_s$]ConnectionTerminal capacity with uninsulated end sleeve in accordance with DIN46228 / 1
1 x (0,25 - 0,75) mm$^2$
Rated control voltage [$U_s$]ConnectionTerminal capacity with insulated end sleeve in accordance with DIN46224 / 4
1 x (0,25 - 0,75) mm$^2$
Rated control voltage [$U_s$]ConnectionTerminal capacity Min. tightening torque
0.22 Nm
Rated control voltage [$U_s$]ConnectionTerminal 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) mm$^2$
Terminal capacity Stranded
1 x (0.2 - 0.5) mm$^2$
Terminal capacity with uninsulated end sleeve in accordance with DIN46228 / 1
1 x (0,25 - 0,5) mm$^2$
Connection for maintenance mode (ARMS)
Digitale HalbleiterausgängeFunction
For remote switching
Digitale HalbleiterausgängeNumber

1
Digitale HalbleiterausgängeOutput voltage
3,3 V DC
Digitale HalbleiterausgängeOverload proof
yes
Digitale HalbleiterausgängeConnection technique
Cable
Digitale HalbleiterausgängeConnection type
Push-in
Digitale HalbleiterausgängeStripping length
6 mm
Digitale HalbleiterausgängeTerminal capacity Solid
1 x (0,2 - 0,5) mm²
Digitale HalbleiterausgängeTerminal capacity Stranded
1 x (0,2 - 0,5) mm²
Digitale HalbleiterausgängeTerminal capacity with uninsulated end sleeve in accordance with DIN46228 / 1
1 x (0,25 - 0,5) mm²

# Design verification as per IEC/EN 61439

IEC/EN 61439 design verification
10.2 Strength of materials and parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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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