Eaton 135530



Catalog Number: 135530

Eaton Moeller series NZM - Molded Case Circuit Breaker. Connection, SmartWire-DT, for NZM

General specifications

Product Name Catalog Number

Eaton Moeller series NZM electronic 135530

accessory

EAN

4015081323166

Product Length/Depth Product Height

90 mm 102 mm

Product Width Product Weight

35 mm 0.18 kg

Compliances Certifications

IEC UL CSA08 (request filed)

RoHS conform IEC/EN 61131-2 EN 50178



Product specifications

Used with

SmartWire-DT interface for NZM circuit breakers

Special features

A switch with a remote

operator can also be

remotely operated with the

module.

Two digital inputs for the

switch status

2 transistor outputs for

remote switching

Retentive memory for

energy data (kWh)

Energy data is transmitted

through digital input (S0)

from an external energy

measuring module NZM...-

XMC-SO.

Connection cable (1.90 m)

for the circuit breaker and

two NZM auxiliary contacts

(1 x NO, 1 x NC) are

included as standard.

EN 55011 Class A

(electromagnetic

compatibility (EMC), radio

interference suppression)

EN 60947-5-1 utilization

category DC-13 (switching

capacity, digital semi-

conductor outputs)

Status display inputs: yellow

Take appropriate measures

to prevent condensation

Type

Accessory

Features

Fieldbus connection over separate bus coupler possible

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

Resources

Brochures

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

Catalogs

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

Drawings

eaton-modular-plc-eu5e-input-module-dimensions.eps eaton-modular-plc-eu5e-i-o-module-dimensions.eps

eaton-modular-plc-swd-eu5e-i-o-module-3d-drawing.eps

DA-CE-ETN.NZM-XSWD-704

Installation instructions

IL05006005Z

eCAD model

Installation videos

Introduction of the new digital circuit breaker NZM

The new digital NZM Range

mCAD model

nzm_xswd_704.stp

nzm_xswd_704.dwg

Sales notes

eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf

Technical data sheets

eaton-nzm-technical-information-sheet

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 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.

Fitted with:

Potential separation

Frame

NZM2/3/4

Pollution degree

2 (EMC)

Burst impulse

2 kV

1 kV

Connection to SmartWire-DT

Plug, 8-pole connection

Connection to SmartWire-DT

Green LED (status SmartWire-DT)

Automatic setting the baud rate

SmartWire-DT slave (station type)

Connection plug: external device plug SWD4-8SF2-5

Isolation

Outputs to SmartWire-DT (potential isolation)

Inputs for SmartWire-DT (potential isolation)

Accessory/spare part type

Diagnostics and communication

Category (EN 954-1)

В

Explosion safety category for dust

None

Explosion safety category for gas

None

Mounting method

Top-hat rail IEC/EN 60715, 35 mm

Wall mounting/direct mounting Rail mounting possible Voltage type DC Mounting position Vertical Overvoltage category **Dimensions** 35 mm x 90 mm x 101 mm Safety performance level (EN ISO 13849-1) None SIL (IEC 61508) None Terminal connection for I/O sensor Push in terminals Vibrations at constant acceleration 1 g (IEC/EN 61131-2:2008) 8.4 Hz - 150 Hz Vibrations at constant amplitude 3.5 mm (IEC/EN 61131-2:2008) 5 Hz - 8.4 Hz Voltage range of type 1 digital inputs Low ≤ 5V DC; High ≥ 15V DC Ambient operating temperature - max 55 °C Ambient operating temperature - min Drop height (IEC/EN 60068-2-31) 50 mm EMC of electromagnetic fields at 1.4 - 2 GHz (IEC/EN 61131-2:2008) 3 V/m EMC of electromagnetic fields at 2 - 2.7 GHz (IEC/EN 61131-2:2008) 1 V/m EMC of electromagnetic fields at 80 - 1000 MHz (IEC/EN 61131-2:2008) 10 V/m EMC of electrostatic air discharge level 3 (IEC/EN 61131-2:2008) 8 KV

EMC of electrostatic contact discharge level 2 (IEC/EN 61131-2:2008) 4 KV EMC of radiated RFI level 3 (IEC/EN 61131-2:2008) 10 V Input current of digital inputs Relative humidity 5 - 95 % Degree of protection IP20 Overload proof of digital semi-conductor outputs Yes, with diagnostics Terminal capacity (cable) 0.25 mm² - 1.5 mm² with ferrule Terminal capacity (solid wire) 0.2 mm² - 1.5 mm² (AWG 24 - AWG 16) **Functions** SmartWire-DT module NZM circuit breakers SmartWire-DT slave (product range) The module implements the data connection between the NZM2/3/4 with electronic release and SmartWire-DT. Digital input delay High to low < 0.2 ms Low to High typ. < 0.2 ms Shock resistance 9 impacts (IEC 60068-2-27) Short-circuit tripping current Max. 1.2 over 3 ms (digital semi-conductor outputs) System accessory No Number of inputs (digital) Protocol Other bus systems Lamp load of digital semi-conductor outputs 3 W Number of outputs (semiconductor)

Packaged free fall height (IEC/EN 60068-2-32)

0.3 m

Messages

Actual current value in A

Load warnings

Actual settings of the rotary coding switches

Reason for last trip

Switch type

Status data NZM: ON/OFF/TRIPPED

Output current of digital semiconductor outputs

Normally 0.5 A at 24 V DC

Supply voltage at AC, 50 Hz - max

0 V

Supply voltage at AC, 50 Hz - min

0 V

Supply voltage at AC, 60 Hz - max

Supply voltage at AC, 60 Hz - min

0 V

Supply voltage at DC - max

24 V

Supply voltage at DC - min

24 V



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