



189727 NZM2/3-XU2A208-240AC

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Design verification as

per IEC/EN 61439

eation as

Technical data ETIM 7.0

Approvals

Product range Accessories

Accessories Undervoltage release

Accessories

Undervoltage release with two relays

Standard/Approval UL/CSA, IEC

Construction size NZM2/3

Description

Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70%

For use with emergency-stop devices in connection with an emergency-stop button. For signalizing commands or different states of the circuit-breaker.

Two relays per unit.

The activation criteria can be configured in the trip

Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager.

When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit-breakers with electronic trips.

Under-voltage trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHV, under-voltage trip NZM..-XU... or shunt trip NZM..-XA.
Relay contacts for control wiring.
Relays can be used for controlling remote operator with Us=208-204 V AC.
Control wiring on push-in clamps.
Cannot be used with the PXR10 NZM-AX electronic trip.

Connection type with push in terminal

Auxiliary contacts without auxiliary contact

For use with PXR20(25) NZM2(-4)-..X... PXR20(25) NZM3(-4)-..X...

Number of relays

Contact sequence | 3.33 | 3.43 | + ----

TECHNICAL DATA

Undervoltage release

Rated control voltage [U_s] AC [U_s] 208-240 V AC

Operating range
Drop-out voltage
0.35 - 0.7 x U_s

Operating range Flck-up voltage [x Uc] 0.85 - 1.1

Power consumption AC Pick-up AC 1.5 VA

Power consumption AC Sealing AC 1.5 VA

Power consumption DC Pick-up DC 0.8 W

Power consumption DC Sealing DC 0.8 W

Maximum opening delay (response time until opening of the main contacts)
19 ms

Minimum command time 10 - 15 ms

Terminal capacity Solid

1 x (0.2 – 1.5) mm²

Terminal capacity Stranded

1 x (0.25 – 1.5) mm²

Terminal capacity

1 x (24 - 16) AWG

Terminal capacity with insulated end sleeve in accordance with DIN46224 / 4

Terminal capacity

with uninsulated end sleeve in accordance with DIN46228 / 1 1 x (0,25 - 0,75) mm²

Relay contacts

Rated control voltage [U_s] AC [U_s] 24-240 V AC

Rated control voltage [U_s] DC [U_s] 24-24 V DC

Contacts Rated impulse withstand voltage [U_{imp}] 4000 V AC

Contacts Rated insulation voltage [U_i] 250 V

Contacts
Overvoltage category/pollution degree II/2

Switching capacity
Rated operational current
AC-1
24 V [l_e]
1 A

Switching capacity
Rated operational current
AC-1
110 V [l_e]
1 A

Switching capacity
Rated operational current
AC-1
230 V [l_e]
1 A

Switching capacity
Rated operational current

DC-1 24 V [l_e] 1 A

Switching capacity
Mn. switching capacity (reference value)
0.1 mA / 0.1 VDC

Connection Stripping length 8 mm

Connection
Terminal capacity
Solid
1 x (0.2 – 1.5) mm²

Connection
Terminal capacity
Stranded
1 x (0.25 – 1.5) mm²

Connection **Terminal capacity**1 x (24 - 16) AWG

Connection

Terminal capacity

with insulated end sleeve in accordance with

DIN46224 / 4

1 x (0,25 - 1,5) mm²

Connection
Terminal capacity
with uninsulated end sleeve in accordance with
DIN46228 / 1
1 x (0,25 - 0,75) mm²

DESIGN VERIFICATION AS PER IEC/EN 61439

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures Weets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatWeets 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 parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsWeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances Weets 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 properties10.9.4 Testing of enclosures made of insulating materialIs 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.

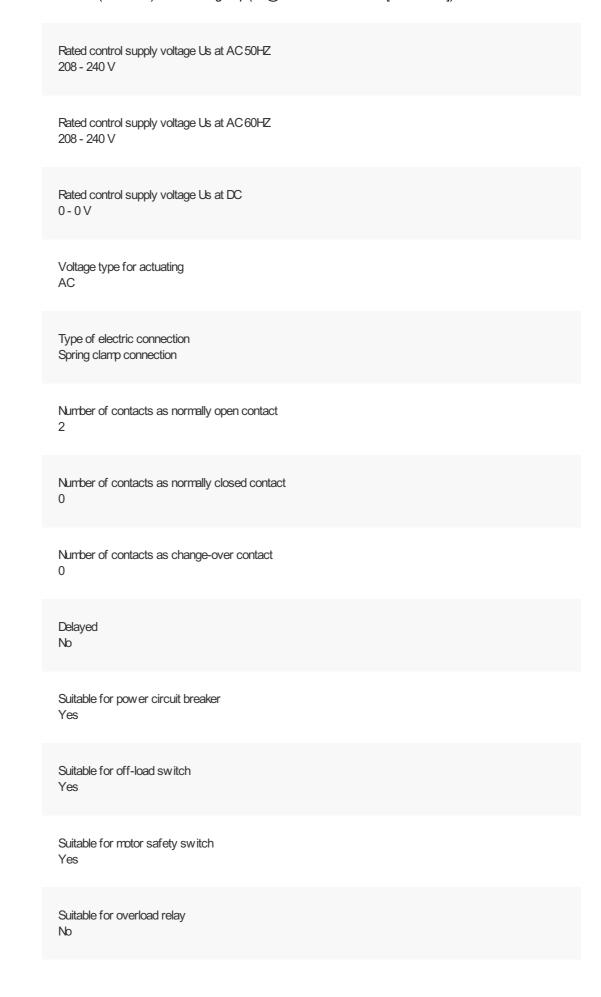
10.13 Mechanical function
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

TECHNICAL DATA ETIM 7.0

Low-voltage industrial components (EG000017) / Under voltage coil (EC001022)

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Qrcuit

breaker (LV < 1 kV) / Undervoltage trip (ecl@ss10.0.1-27-37-04-17 [AKF015013])



APPROVALS

Product Standards
UL489; CSA-C22.2 No. 5-09; IEO60947, CE marking

UL File No.
E140305

UL Category Control No.
DIHS

CSA File No.
022086

CSA Class No.
1437-01

North America Certification UL listed, CSA certified







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