



259509 NZM 2/3-XU24DC

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Product range Accessories

Design verification as per IEC/EN 61439

Accessories Undervoltage release

Technical data ETIM 7.0

Accessories Undervoltage releases

Standard/Approval UL/CSA, IEC

Approvals

Construction size NZM2/3

Description

Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35-70% U_S. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage trip is switched off, accidental contact with the circuit breaker's

primary contacts is prevented when switched on. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.

Connection type
With bolt connection

Auxiliary contacts without auxiliary contact

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

For use with NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)

TECHNICAL DATA

Undervoltage release

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

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

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 capacities

Solid or flexible conductor, with ferrule $1 \times (0.75 - 2.5)$ $2 \times (0.75 - 2.5)$ mm²

1 x (18 ... 14) 2 x (18 ... 14) AWG

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 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
Weets 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 InscriptionsMeets 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 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 properties10.9.3 Impulse withstand voltageIs 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

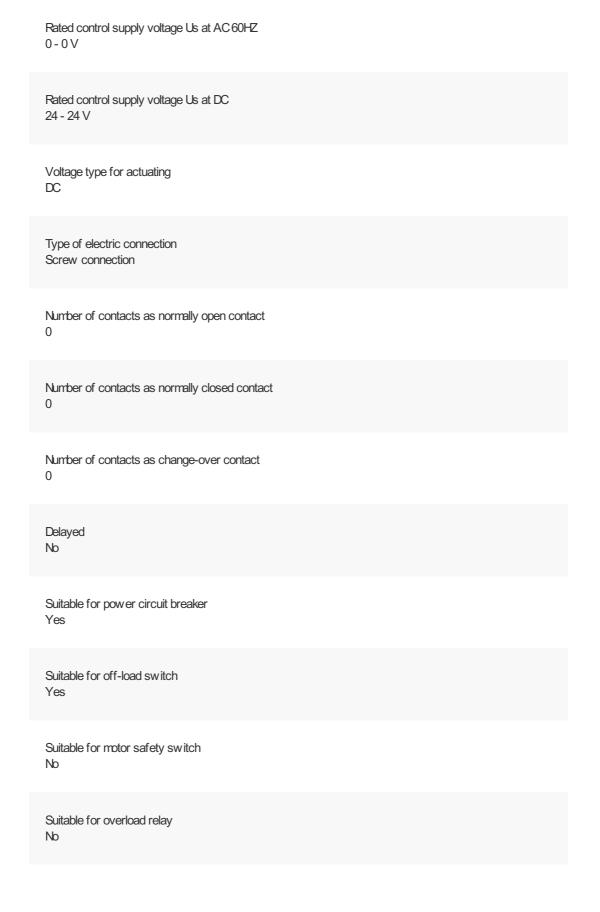
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

TECHNICAL DATA ETIM 7.0

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

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Oircuit breaker (LV < 1 kV) / Undervoltage trip (ecl@ss10.0.1-27-37-04-17 [AKF015013])

Rated control supply voltage Us at AC 50HZ $0-0\ V$



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





