



NZM1-XAL208-250AC/DC

Overview

Specifications

Resources







Delivery program

Technical data

Design verification as

DELIVERY PROGRAM

Product range Accessories

Accessories Shunt release

Accessories Shunt releases

per IEC/EN 61439

Technical data ETIM 7.0

Standard/Approval

Approvals

Dimensions

UL/CSA, IEC

Construction size NZM1

Description

Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.

If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on.

Shunt releases cannot be installed simultaneously with NZM..-XHIV... early-make auxiliary contact or NZM..-XU... undervoltage release.

Connection type with 3 m connection cable instead of screw termination

Auxiliary contacts without auxiliary contact

Rated control voltage $[U_s]$ 208 - 250 V AC/DC V

For use with NZM1(-4), N(S)1(-4)

TECHNICAL DATA

Shunt release

Rated control voltage [U_s] AC [U_s] 208-250 V AC

Rated control voltage [U_s] DC [U_s] 208-250 V DC

Frequency 50/60/200/400, DC Hz

Operating range AC [x U_s] 0.7 - 1.1

Operating range DC [x U_s] 0.7 - 1.1

Power consumption Pick-up AC/DC 2.5 VA/W

Power consumption
Power consumption Pick-up = Sealing

Maximum opening delay (response time until opening of the main contacts) 20 ms

Maximum duty factor ∞ 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

Terminal capacities 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

Mosts the product standard's requirements

Meets 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 Weets 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 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) / Shunt release (for power circuit breaker) (EC001023)

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss10.0.1-27-37-04-18 [AKF016013])

Rated control supply voltage Us at AC 50HZ 208 - 250 V

Rated control supply voltage Us at AC 60HZ 208 - 250 V

Rated control supply voltage Us at DC 208 - 250 V

Voltage type for actuating AC/DC

Initial value of the undelayed short-circuit release setting range 0 A End value adjustment range undelayed shortcircuit release 0 A Type of electric connection Screw connection Number of contacts as normally open contact Number of contacts as normally closed contact Number of contacts as change-over contact Suitable for power circuit breaker Yes Suitable for off-load switch Yes Suitable for motor safety switch No Suitable for overload relay No **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

DIMENSIONS



NZM1-XA(HIV) NZM1-XU(HIV)(20)

NZM1-XHIV

NZM1-XA(HIV)(L)

NZM1-XU(V)(HIV)(L)(20)

NZM1-XHIV(L)

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NZM1-XHIVR







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