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Powering Business Worldwide

NZM1-XU208-240AC - Undervoltage release, 208-240VAC



259442 NZM1-XU208-240AC

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## 259442 NZM1-XU208-240AC

Undervoltage release, 208-240VAC

EL-Nummer (Norway)

4358718

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: non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35-70% U<sub>s</sub>. For use with Emergency-Stop devices in conjunction with emergency-stop button. when the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release. Can be used for: NZM1(-4), N(NO)1(-4)

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

### Delivery program

Product range

Accessories

Accessories

Undervoltage release

Accessories

Undervoltage releases

Standard/Approval

UL/CSA, IEC

Construction size

NZM1

Description

Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 - 70% U<sub>s</sub>.

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 terminal block on the left-hand switch side

Auxiliary contacts

without auxiliary contact

Rated control voltage [U<sub>s</sub>]

208 - 240 V 50/60 Hz V

For use with

NZM1(-4), N(S)1(-4)

## Technical data

Undervoltage release  
Rated control voltage [ $U_s$ ] AC [ $U_s$ ]  
208-240 V AC  
Rated control voltage [ $U_s$ ] Rated control voltage [ $U_s$ ]  
208 - 240 V 50/60 Hz V  
Operating range Drop-out voltage  
0.35 - 0.7 x  $U_s$   
Operating range Flick-up voltage [x  $U_c$ ]  
0.85 - 1.1  
Power consumption AC Flick-up AC  
1.5 VA  
Power consumption AC Sealing AC  
1.5 VA  
Power consumption DC Flick-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 x (0,75 - 2,5)  
2 x (0,75 - 2,5) mm<sup>2</sup>  
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 parts 10.2.2 Corrosion resistance  
Meets 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  
Meets 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 parts 10.2.5 Lifting  
Does not apply, since the entire switchgear needs to be evaluated.  
10.2 Strength of materials and parts 10.2.6 Mechanical impact  
Does not apply, since the entire switchgear needs to be evaluated.  
10.2 Strength of materials and parts 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 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 properties 10.9.4 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) / Under voltage coil (EC001022)

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

Rated control supply voltage  $U_s$  at AC 50HZ

208 - 240 V

Rated control supply voltage  $U_s$  at AC 60HZ

208 - 240 V

Rated control supply voltage  $U_s$  at DC

0 - 0 V

Voltage type for actuating

AC

Type of electric connection

Screw connection

Number of contacts as normally open contact

0

Number of contacts as normally closed contact

0

Number of contacts as change-over contact

0

Delayed

No

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; IEC60947, 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)

## CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)

## DWG files

- [DA-CD-nzm1\\_xu](#)  
File  
(Web)

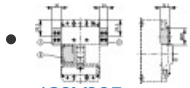
## edz files

- [DA-CE-ETN.NZM1-XU208-240AC](#)  
File  
(Web)

## Step files

- [DA-CS-nzm1\\_xu](#)  
File  
(Web)

## Dimensions single product



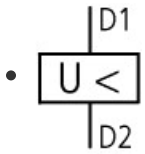
[123X305](#)

Line drawing

Releases

- NZM1-XA(HIV), NZM1-XA(HIV)(20), NZM1-XHIV
- NZM1-XA(HIV)(L), NZM1-XU(V)(HIV)(L)(20), NZM1-XHIV(L)
- NZM1-XHVR

## Wiring diagram

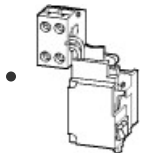


[123S013](#)

Line drawing

Symbol, undervoltage releases

## 3D drawing



[123I522](#)

Line drawing

Undervoltage releases, shunt releases

## Product photo



## Instruction Leaflet

- [IL01203002Z](#)  
Asset  
(PDF, Language independent)

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