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NZM1-XUHIV208-240AC - Undervoltage release, 208-240VAC, +2early NO



### 259539 NZMI-XUHV208-240AC Overview Specifications Resources



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# 259539 NZM1-XUHIV208-240AC

Undervoltage release, 208-240VAC, +2early NO

EL-Nummer (Norway)

4358720

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: for interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications. For use with Emergency-Stop devices in conjunction with emergency-stop button. when the shunt release is energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Early make of auxiliary contacts on switching on and off (manual operation): approx. 20ms. 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

Product range Accessories Accessories Undervoltage release Accessories Undervoltage release with early-make auxiliary contact Standard/Approval UL/CSA. IEC Construction size NZM1 Description Undervoltage release with 2 early-make auxiliary contacts, e.g., for early-make connection of undervoltage release in main switch applications, as well as for interlock and load shedding circuits. 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. Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Undervoltage releases cannot be installed simultaneously with NZM..-XHV... early-make auxiliary contact or NZM..-XA... shunt release. Connection type with terminal block on the left-hand switch side Auxiliary contacts with 2 early-make auxiliary contacts Rated control voltage [Us] 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 [Us] Rated control voltage [Us] 208 - 240 V 50/60 Hz V Operating rangeDrop-out voltage 0.35 - 0.7 x U<sub>s</sub> Operating rangePick-up voltage [x Uc] 0.85 - 1.1 Power consumptionAC Pick-up AC 1.5 VA Power consumptionAC Sealing AC 1.5 VA Power consumption DCPick-up DC 0.8 W Power consumption DCSealing 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 parts10.2.2 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 parts10.2.4 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 parts10.2.7 Inscriptions Meets 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 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) Bectric 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 Us at AC 50HZ 208 - 240 V Rated control supply voltage Us at AC 60HZ 208 - 240 V Rated control supply voltage Us at DC 0-0V Voltage type for actuating AC Type of electric connection Screw connection Number of contacts as normally open contact 2 Number of contacts as normally closed contact 0 Number of contacts as change-over contact 0 Delaved 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; 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(HV) NZM1-XU(HV)(20) NZM1-XHV □ NZM1-XA(HV)(L) NZM1-XU(V)(HV)(L)(20) NZM1-XHV(L) DZM1-XHIVR

## CAD data

- Product-specific CAD data
   (Web)
- 3D Preview (Web)

### DWG files

• DA-CD-nzm1\_xu File (Web)

### edz files

DA-CE-ETN.NZM1-XUHIV208-240AC
File
(Web)

### Step files

• DA-CS-nzm1\_xu File (Web)

## **Dimensions single product**



#### Line drawing

- Releases
- $\label{eq:resonance} $$ NZM1-XA(HV)(L), NZM1-XU(V)(HV)(L)(20), NZM1-XHV(L) $$ NZM1-XHV(L) $$ NZM1-XHVR $$ N$

## Wiring diagram

Undervoltage release with early-make auxiliary contacts

## 3D drawing



Line drawing Undervoltage releases, shunt releases

# Product photo



## Instruction Leaflet

IL01203002Z
 Asset
 (PDF, Language independent)

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