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NZM2/3-XUHIV208-240AC - Undervoltage release, 208-240VAC, +2early N/O



259591 NZM2/3-XUHIV208-240AC

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## 259591 NZM2/3-XUHIV208-240AC

Undervoltage release, 208-240VAC, +2early N/O

EL-Nummer (Norway)

4358770

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. Cannot be used in conjunction with NZM...-XR... remote operator. Can be used for: NZM2(-4), N(NO)2(-4), NZM3(-4), N(NO)3(-4)

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

### Delivery program

Product range

Accessories

Accessories

Undervoltage release

Accessories

Undervoltage release with early-make auxiliary contact

Standard/Approval

UL/CSA, IEC

Construction size

NZM2/3

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...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.

Cannot be used in conjunction with NZM...-XR... remote operator.

Connection type

With bolt connection

Auxiliary contacts

with 2 early-make auxiliary contacts

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

208 - 240 V 50/60 Hz V

For use with

NZM $\bar{2}$ (-4), N(S)2(-4)

NZM $\bar{3}$ (-4), N(S)3(-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 rangeDrop-out voltage

0.35 - 0.7 x  $U_s$

Operating rangePick-up voltage [x  $U_c$ ]

0.85 - 1.1

Power consumptionAC Pick-up AC

1.5 VA

Power consumptionAC Sealing AC

1.5 VA

Power consumptionDC Pick-up DC

0.8 W

Power consumptionDC 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 parts10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.3 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 parts10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 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 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 properties10.9.2 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

2

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

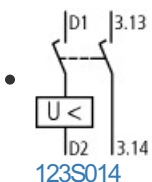
CSA Class No.

1437-01

North America Certification

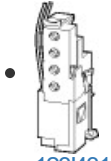
UL listed, CSA certified

## Wiring diagram



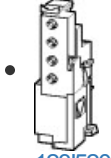
Line drawing  
Undervoltage release with early-make auxiliary contacts

## 3D drawing



1231431

Line drawing  
Undervoltage releases



1231520

Line drawing  
Undervoltage releases, shunt releases

## Product photo



1230PIC-1134

Photo

## Instruction Leaflet

- [NZM2/3 XHM \(IL012141ZU\)](#)  
IL012141ZU  
(PDF, 03/20, Language independent)

## CAD data

### edz files

- [DA-CE-ETN.NZM2\\_3-XUHV208-240AC](#)  
File  
(Web)

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