

Select your language

- German
- English
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English



Powering Business Worldwide

NZM2/3-XUHIV220-250DC-PI - Undervoltage release for NZM2/3, 1 early-make auxiliary contact, 2NO, 208-250DC, Push-in terminals



189785 NZM2/3-XUHIV220-250DC-PI

[Overview](#) [Specifications](#) [Resources](#)



189785 NZM2/3-XUHIV220-250DC-PI

Undervoltage release for NZM2/3, 1 early-make auxiliary contact, 2NO, 208-250DC, Push-in terminals
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: Undervoltage releases with one early-make contact and push-in terminals. For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications. Non-delayed disconnection of circuit-breaker NZM when control voltage drops below 35 - 70 % Us. For use with emergency switching off devices in conjunction with emergency switching off button. When the undervoltage release is de-energized, accidental contact with the main contacts of the circuit-breaker during attempts to switch on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms (NZM2/3) and 90 ms (NZM4). Undervoltage release modules cannot be installed simultaneously with early-make contact NZM...XHIV, shunt release NZM...XA... or relais modules NZM...X2A...

- [Delivery program](#)
- [Technical data](#)
- [Design verification as per IEC/EN 61439](#)
- [Technical data ETIM 7.0](#)

Delivery program

Product range

Accessories

Accessories

Undervoltage release

Accessories

Undervoltage release with early-make auxiliary contact

Standard/Approval

UL/CSA, IEC

Description

For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.

Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70% Us.

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 (NZM2/3) and 90 ms (NZM4).

Undervoltage release modules cannot be installed simultaneously with early-make contact NZM...-XHIV, shunt release NZM...-XA... or relays modules NZM...-X2A...

Connection type

with push in terminal

Auxiliary contacts

with early-make auxiliary contact

Rated control voltage [U_s]

220 - 250 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] Rated control voltage [U_s]

220 - 250 V DC V

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.

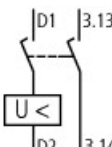
Technical data ETIM 7.0

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
0 - 0 V
Rated control supply voltage U_s at AC 60Hz
0 - 0 V
Rated control supply voltage U_s at DC
220 - 250 V
Voltage type for actuating
DC
Type of electric connection
Spring clamp connection
Number of contacts as normally open contact
1
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
Yes
Suitable for overload relay
No

Product photo

- 
[Photo](#)
Product photo
Photo
- 
[Photo](#)
Product photo
Photo
- 
[Photo](#)
Product photo
Photo

Wiring diagram

- 
[123S014](#)
Wiring diagram

Line drawing
Undervoltage release with early-make auxiliary contacts

Download-Center

- [Download-Center \(this item\)](#)
Eaton EMEA Download-Center - download data for this item
- [Download-Center](#)
Eaton EMEA Download-Center



[Generate data sheet in PDF format](#)



[Generate data sheet in Excel format](#)



[Write a comment](#)

[Imprint](#) [Privacy Policy](#) [Legal Disclaimer](#) [Terms and Conditions](#)

© 2020 by Eaton Industries GmbH

