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Powering Business Worldwide

NZM2/3-XAHIV48AC/DC-PI - Shunt release for NZM2/3, 1 early-make auxiliary contact, 2NO, 48AC/DC, Push-in terminals



189812 NZM2/3-XAHIV48AC/DC-PI

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189812 NZM2/3-XAHIV48AC/DC-PI

Shunt release for NZM2/3, 1 early-make auxiliary contact, 2NO, 48AC/DC, 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: Shunt releases with one early-make contact and push-in terminals. Switches are tripped by a voltage pulse or by the application of uninterrupted voltage. When the shunt release is live, contact with the circuit-breaker's main contacts on switching 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). Shunt release modules cannot be installed simultaneously with early-make contact NZM...-XHIV, undervoltage release NZM...-XU..., relay modules NZM...-X2A..., or remote operator NZM...-XR..

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• [Delivery program](#)

• [Design verification as per IEC/EN 61439](#)

• [Technical data ETIM 7.0](#)

Delivery program

Product range

Accessories

Accessories

Shunt release

Accessories

Shunt releases

Standard/Approval

UL/CSA, IEC

Construction size

NZM2/3

Description

When the shunt release is live, contact with the circuit-breaker's main contacts on switching 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).

Shunt release modules cannot be installed simultaneously with early-make contact NZM...-XHIV, undervoltage release NZM...-XU..., relay modules NZM...-X2A..., or remote operator NZM...-XR...

Connection type

with push in terminal

Auxiliary contacts

with early-make auxiliary contact

Rated control voltage [U_c]

48 V AC/DC V

For use with

NZM2(-4), N(S)2(-4)

NZM3(-4), N(S)3(-4)

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

Electric 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 U_s at AC 50Hz

48 - 48 V

Rated control supply voltage U_s at AC 60Hz

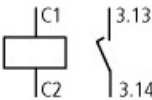
48 - 48 V

Rated control supply voltage U_s at DC
48 - 48 V
Voltage type for actuating
AC/DC
Initial value of the undelayed short-circuit release - setting range
0 A
End value adjustment range undelayed short-circuit release
0 A
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
Suitable for power circuit breaker
Yes
Suitable for off-load switch
Yes
Suitable for motor safety switch
Yes
Suitable for overload relay
No

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Wiring diagram

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Wiring diagram
Line drawing
Shunt release with early-make auxiliary contacts

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