



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

Worldwide English



NZMN3-VE630-SVE - Circuit-breaker, 3p, 630A, plug-in module



168482 NZMN3-VE630-SVE

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

168482 NZMN3-VE630-SVE

Circuit-breaker, 3p, 630A, plug-in module

Alternate Catalog No.

NZMN3-VE630-SVE

EL-Nummer (Norway)

4357584

Series NZM.-VE circuit-breakers cover all application cases with just four compact sizes and are suitable for the IEC market. Modular function groups always make mounting flexible. With electronic actuators for systems and cable protection, selective and generator protection. Overload, briefly delayed, and non-delayed short-circuit protection. Notes: r.m.s. value measurement and thermal memory, adjustable time delay setting to overcome current peaks t_r : 2-14 s at 6x I_r as well as infinity (without overload release), adjustable deceleration time t_{sd} : stages: 0, 1000 ms, i^2t constant function: switched

- Design verification as per IEC/EN 61439

- Technical data ETIM 7.0

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_h]

630 A

Equipment heat dissipation, current-dependent [P_{id}]

119.07 W

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) / Power circuit-breaker for trafo/generator/installation protection (EC000228)
- Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])
- Rated permanent current I_{u}
630 A
- Rated voltage
690 - 690 V
- Rated short-circuit breaking capacity I_{cu} at 400 V, 50 Hz
50 kA
- Overload release current setting
315 - 630 A
- Adjustment range short-term delayed short-circuit release
630 - 6300 A
- Adjustment range undelayed short-circuit release
1260 - 6930 A
- Integrated earth fault protection
No
- Type of electrical connection of main circuit
Screw connection
- Device construction
Built-in device plug-in technique
- Suitable for DIN rail (top hat rail) mounting
No
- DIN rail (top hat rail) mounting optional
No
- Number of auxiliary contacts as normally closed contact
0
- Number of auxiliary contacts as normally open contact
0
- Number of auxiliary contacts as change-over contact
0
- With switched-off indicator
No
- With under voltage release
No
- Number of poles
3
- Position of connection for main current circuit
Front side

Type of control element
Rocker lever
Complete device with protection unit
Yes
Motor drive integrated
No
Motor drive optional
Yes
Degree of protection (IP)
IP20

CAD data

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

edz files

- [DA-CE-ETN.NZMN3-VE630-SVE File \(Web\)](#)

Product photo



1230PIC-1324

Photo

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](#)

© 2021 by Eaton Industries GmbH