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N3-4-630-SVE - Switch-disconnector 4p + plug-in contacts



168471 N3-4-630-SVE

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

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

Delivery program

Description

Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113.

Isolating characteristics to IEC/EN 60947-3 and VDE 0660.

Busbar tag shroud to VDE 0160 Part 100.

Rated current = rated uninterrupted current [$I_n = I_u$]

630 A

Short-circuit protection max. fuse gL-characteristic

630 A gL

Technical data

General

Ambient temperatureAmbient temperature, storage

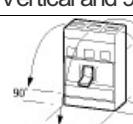
- 40 - + 70 °C

Ambient temperatureOperation

-25 - +70 °C

Mounting positionMounting position

Vertical and 90° in all directions



With residual-current release XFI:

- NZM1, N1, NZM2, N2: vertical and 90° in all directions

With plug-in adapter elements

- NZM1, N1, NZM2, N2: vertical, 90° right/left

with withdrawable unit:
- NZM3, N3: vertical, 90 ° left
- NZM4, N4: vertical
with remote operator:
- NZM2, N(S)2, NZM3, N(S)3, NZM4, N(S)4: vertical and 90° in all directions

Switch-disconnectors

Rated current = rated uninterrupted current [$I_h = I_u$]

630 A

Rated making and breaking capacity

Rated operational current [I_e] AC-22/23A415 V [I_e]

630 A

Rated operational current [I_e] AC-22/23A690 V [I_e]

630 A

Design verification as per IEC/EN 61439

Technical data for design verification

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

107.16 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+70 °C

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) / Switch disconnector (EO000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as main switch

Yes

Version as maintenance-/service switch

Yes

Version as safety switch

No

Version as emergency stop installation

Yes

Version as reversing switch

No

Number of switches

1

Max. rated operation voltage Ue AC

690 V

Rated operating voltage

690 - 690 V

Rated permanent current Iu

630 A

Rated permanent current at AC-23, 400 V

0 A

Rated permanent current at AC-21, 400 V

0 A

Rated operation power at AC-3, 400 V

0 kW

Rated short-time withstand current Icw

12 kA

Rated operation power at AC-23, 400 V

315 kW

Switching power at 400 V

0 kW

Conditioned rated short-circuit current Iq

0 kA

Number of poles

4

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

Motor drive optional

Yes

Motor drive integrated

No

Voltage release optional

Yes

Device construction

Built-in device plug-in technique

Suitable for ground mounting

Yes

Suitable for front mounting 4-hole

No

Suitable for front mounting centre

No

Suitable for distribution board installation

Yes

Suitable for intermediate mounting

Yes

Colour control element

Black

Type of control element

Rocker lever

Interlockable

Yes

Type of electrical connection of main circuit
Screw connection
Degree of protection (IP), front side
IP20
Degree of protection (NEEMA)

CAD data

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

DWG files

- [DA-CD-nzrm3_4_a320_sve](#)
File
(Web)

edz files

- [DA-CE-ETN.NB-4-630-SVE](#)
File
(Web)

Step files

- [DA-CS-nzrm3_4_a320_sve](#)
File
(Web)

Additional product information

- additional technical information for NZMpower switch
(PDF)

Product photo

- 
[1230PIC-1304](#)
Photo

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