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Powering Business Worldwide

N3-4-400-SVE - Switch-disconnector 4p + plug-in contacts



168470 N3-4-400-SVE

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168470 N3-4-400-SVE

Switch-disconnector 4p + plug-in contacts

Alternate Catalog No.

N3-4-400-SVE

EL-Nummer (Norway)

4356982

Series NZM circuit-breakers cover all application cases with just four compact sizes and are suitable for the IEC market. Installation is always flexible thanks to the use of modular function groups.

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- [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 [$I_n = I_u$]

400 A

Short-circuit protection max. fuse gL-characteristic

630 A gL

Technical data

General

Ambient temperature Ambient temperature, storage

- 40 - + 70 °C

Ambient temperature Operation

-25 - +70 °C

Mounting position Mounting 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 [$I_n = I_u$]
400 A
Rated making and breaking capacity
Rated operational current [I_e] AC-22/23A415 V [I_e]
400 A
Rated operational current [I_e] AC-22/23A690 V [I_e]
400 A

Design verification as per IEC/EN 61439

Technical data for design verification

Equipment heat dissipation, current-dependent [P_{vid}]
43.2 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 disconnecter (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (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
400 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
200 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 (NEMA)

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

DWG files

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

edz files

- [DA-CE-ETN.N3-4-400-SVE](#)
File
(Web)

Step files

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

Additional product information

- [additional technical information for NZM power switch](#)
(PDF)

Product photo



[1230PIC-1304](#)
Photo

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