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N3-630-SVE - Switch-disconnector 3p + plug-in contacts



168545 N3-630-SVE

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168545 N3-630-SVE

Switch-disconnector 3p + plug-in contacts

Alternate Catalog No.

N3-630-SVE

EL-Nummer (Norway)

4356981

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.

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 [$I_n = I_u$]

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_{ed}]

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 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 U_e AC
 690 V
 Rated operating voltage
 690 - 690 V
 Rated permanent current I_u
 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 I_{cw}
 12 kA
 Rated operation power at AC-23, 400 V
 315 kW
 Switching power at 400 V
 0 kW
 Conditioned rated short-circuit current I_q
 0 kA
 Number of poles
 3
 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)

CAD data

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

DWG files

- [DA-CD-nznrh3_me220_sve](#)
File
(Web)

edz files

- [DA-CE-ETN.N3-630-SVE](#)
File
(Web)

Step files

- [DA-CS-nznrh3_me220_sve](#)
File
(Web)

Additional product information

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

Product photo




[1230PIC-1121](#)
Photo

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