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NZMN3-A400-SVE - Circuit-breaker, 3p, 400A, plug-in module



168487 NZMN3-A400-SVE

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168487 NZMN3-A400-SVE

Circuit-breaker, 3p, 400A, plug-in module

Alternate Catalog No.

EL-Nummer (Norway)

NZMN3-A400-SVE

4357589

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

Delivery program

Switching capacity

400/415 V 50 Hz [I_{cu}]

50 kA

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

400 A

Setting rangeOverload trip [I_f]

320 - 400 A

Short-circuit releases [I_{rm}] Non-delayed [$I_t = I_h \times \dots$]

6 - 10

Technical data

General

Ambient temperatureAmbient temperature, storage

- 40 - + 70 °C

Ambient temperatureOperation

-25 - +70 °C

Circuit-breakersRated current = rated uninterrupted current [$I_h = I_L$]

400 A

Switching capacityRated short-circuit breaking capacity I_{cn} [I_{cn}] I_{cu} to IEC/EN 60947 test cycle O-t-CO [I_{cu}] 400/415 V 50/60 Hz [I_{cu}]

50 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] Icu to IEC/EN 60947 test cycle O-t-OO [I_{cu}] 500 V DC [I_{cu}]
 30 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] Icu to IEC/EN 60947 test cycle O-t-OO [I_{cu}] 750 V DC [I_{cu}]
 30 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] Ics to IEC/EN 60947 test cycle O-t-OO-t-OO [I_{cs}] 500 V DC [I_{cs}]
 30 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] Ics to IEC/EN 60947 test cycle O-t-OO-t-OO [I_{cs}] 750 V DC [I_{cs}]
 30 kA

Design verification as per IEC/EN 61439

Technical data for design verification
 Rated operational current for specified heat dissipation [I_h]
 400 A
 Equipment heat dissipation, current-dependent [P_{vd}]
 72.48 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

(EO000228)
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}
400 A
Rated voltage
690 - 690 V
Rated short-circuit breaking capacity I_{cu} at 400 V, 50 Hz
50 kA
Overload release current setting
320 - 400 A
Adjustment range short-term delayed short-circuit release
0 - 0 A
Adjustment range undelayed short-circuit release
1920 - 4000 A
Integrated earth fault protection
Nb
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
Nb
DIN rail (top hat rail) mounting optional
Nb
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
Nb
With under voltage release
Nb
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)

DWG files

- [DA-CD-nzrh3_me220_sve](#)
File
(Web)

edz files

- [DA-CE-ETN.NZMN3-A400-SVE](#)
File
(Web)

Step files

- [DA-CS-nzrh3_me220_sve](#)
File
(Web)

Additional product information

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

Product photo



1230PIC-1322

Photo

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