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NZMH3-4-A500-SVE - Circuit-breaker, 4p, 500A, withdrawable unit



168893 NZMH3-4-A500-SVE

Overview Specifications Resources



168893 NZMH3-4-A500-SVE

Circuit-breaker, 4p, 500A, withdrawable unit Alternate Catalog No.

NZM-8-4-A500-SVE

EL-Nummer (Norway) 4357616

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

Protective function

System and cable protection

Standard/Approval

IEC

Switching capacity

400/415 V 50 Hz [lcu]

150 kA

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

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

500 A

Neutral conductor [% of phase conductor]

100 %

Setting range

Overload trip [I_r]

400 - 500 A

Overload triplVain pole [Ir]

400 - 500 A

Short-circuit releases \vdash $[I_{rm}]$ Non-delayed \vdash $[I_i = I_n \times ...]$

6 - 10

Technical data

Genera

Ambient temperatureAmbient temperature, storage

-40-+70°C

Ambient temperatureOperation

-25 - +70 °C

Circuit-breakers

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

500 A

Switching capacity

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

150 kA

Rated short-circuit breaking capacity l_{cn} [l_{cn}] los to IEC/EN 60947 test cycle O-t-CO-t-CO [los]500 V DC [l_{cs}]

70 kA

Rated short-circuit breaking capacity l_{cn} [l_{cn}] los to IEC/EN 60947 test cycle O-t-CO-t-CO [los]750 V DC [l_{cs}]

70 kA

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [In]

500 A

Equipment heat dissipation, current-dependent [Pvid]

130.5 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 Weets 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 parts10.2.4 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

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Orcuit 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 lu

500 A

Rated voltage

690 - 690 V

Rated short-circuit breaking capacity Icu at 400 V, 50 Hz

Overload release current setting

400 - 500 A

Adjustment range short-term delayed short-circuit release

Adjustment range undelayed short-circuit release

6-10A

Integrated earth fault protection

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

DIN rail (top hat rail) mounting optional

Number of auxiliary contacts as normally closed contact

Number of auxiliary contacts as normally open contact

Number of auxiliary contacts as change-over contact

With switched-off indicator

With under voltage release

Number of poles

Position of connection for main current circuit

Front side

Type of control element

Rocker lever

Complete device with protection unit

Motor drive integrated

Motor drive optional

Degree of protection (IP)

CAD data

- Product-specific CAD data (Web)
- 3D Preview (Web)

DWG files

 DA-CD-nzmn3_4_a320_sve File (Web)

edz files

• DA-CE-ETN.NZMH3-4-A500-SVE File (Web)

Step files

DA-CS-nzmn3_4_a320_sve File (Web)

Additional product information

 additional technical information for NZM power switch (PDF)

Product photo



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