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NZMH3-4-A320/200-SVE - Circuit-breaker, 4p, 320A, 200A in 4th pole, withdraw able unit



168890 NZMH3-4-A320/200-SVE

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



168890 NZMH3-4-A320/200-SVE

Circuit-breaker, 4p, 320A, 200A in 4th pole, withdraw able unit

Alternate Catalog No.

NZMH3-4-A320R-SVE

EL-Nummer (Norway)

4357613

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 [I_{cu}]

150 kA

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

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

320 A

Neutral conductor [% of phase conductor]

60 %

Setting range

Overload trip  [I_r]

250 - 320 A

Overload trip Main pole  [I_r]

160 - 200 A

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

6 - 10

Technical data

General

Ambient temperature Ambient temperature, storage

- 40 - + 70 °C
 Ambient temperature Operation
 -25 - +70 °C
 Circuit-breakers
 Rated current = rated uninterrupted current [$I_n = I_u$]
 320 A
 Switching capacity
 Rated 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}]
 150 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] I_{cs} to IEC/EN 60947 test cycle O-t-CO-t-CO [I_{cs}] 500 V DC [I_{cs}]
 70 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] I_{cs} to IEC/EN 60947 test cycle O-t-CO-t-CO [I_{cs}] 750 V DC [I_{cs}]
 70 kA

Design verification as per IEC/EN 61439

Technical data for design verification
 Rated operational current for specified heat dissipation [I_n]
 320 A
 Equipment heat dissipation, current-dependent [P_{vid}]
 94 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) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

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_n

320 A

Rated voltage

690 - 690 V

Rated short-circuit breaking capacity I_{cu} at 400 V, 50 Hz

150 kA

Overload release current setting

250 - 320 A

Adjustment range short-term delayed short-circuit release

0 - 0 A

Adjustment range undelayed short-circuit release

6 - 10 A

Integrated earth fault protection

No

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

No

DIN rail (top hat rail) mounting optional

No

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

No

With under voltage release

No

Number of poles

4

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-nzm3_4_a320_sve](#)
File
(Web)

edz files

- [DA-CE-ETN.NZM-B-4-A320_200-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-1320](#)
Photo

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