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NZMS3-ME450-SVE - Circuit-breaker, 3 p, 450A, plug-in module



168530 NZMS3-ME450-SVE

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168530 NZMS3-ME450-SVE

Circuit-breaker, 3 p, 450A, plug-in module

Alternate Catalog No.

EL-Nummer (Norway)

NZMS3-ME450-SVE

4357605

Circuit-breakers of the NZM.-ME series cover all applications with only four compact sizes and are suitable for the IEC market. The mounting is always flexible due to the modular function groups. With electronic release for the motor protection with phase failure sensitivity. Notes: IEC/EN 60947-4-1, IEC/EN 60947-2, r.m.s. value measurement and thermal memory, adjustable time delay setting to overcome current peaks $t_r:2-20$ at $6xI_r$ as well as infinity (without overload release)

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

Design verification as per IEC/EN 61439

Technical data for design verification

Equipment heat dissipation, current-dependent [P_{ed}]

60.75 W

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.3 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 parts10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 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) / Motor protection circuit-breaker (EC000074)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss10.0.1-27-37-04-01 [AGZ529016])

Overload release current setting

225 - 450 A

Adjustment range undelayed short-circuit release

900 - 5400 A

With thermal protection

Yes

Phase failure sensitive

Yes

Switch off technique

Electronic

Rated operating voltage

690 - 690 V

Rated permanent current I_u

450 A

Rated operation power at AC-3, 230 V

132 kW

Rated operation power at AC-3, 400 V

250 kW

Type of electrical connection of main circuit

Screw connection

Type of control element

Rocker lever

Device construction

Built-in device plug-in technique

With integrated auxiliary switch

No

With integrated under voltage release

No

Number of poles

3

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

65 kA

Degree of protection (IP)

IP20

Height

215.2 mm

Width

140 mm

Depth

335 mm

CAD data

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

DWG files

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

edz files

- [DA-CE-ETN.NZMS3-ME450-SVE](#)
File
(Web)

Step files

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

Product photo



sg03815

Photo
3-pole circuit-breaker, motor protection + plug-in contacts

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