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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

- 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 [R_{id}]

60.75 W

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) / Motor protection circuit-breaker (EC0000074)
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_{p}
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
Nb

With integrated under voltage release
Nb

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-nzrh3_me220_sve](#)
File
(Web)

edz files

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

Step files

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

Product photo



sg03815

Photo

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

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