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XNH1-A250 - NH fuse-switch 3p flange connection M10 max. 150 mm²; mounting plate; NH1



183043 XNH1-A250

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183043 XNH1-A250

NH fuse-switch 3p flange connection M10 max. 150 mm²; mounting plate; NH1

EL-Nummer (Norway)

1624018

NH fuse switch-disconnector 3 pole with M10 flat terminal max. 150 mm²; mounting plate; for NH1 fuse-links; optionally lockable with XNH+XLOCK and padlock

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- Delivery program

- Technical data

- Design verification as per IEC/EN 61439

- Technical data ETIM 7.0

- Dimensions

Delivery program

Basic function

Basic device

Number of poles

3 pole

Mounting type

DIN rails

Mounting plate

Size

1

Type of connection

Flat connection

Rated operational current [I_n]

250 A

Front degree of protection (XNH installed)

IP20 (Operating status)
IP2XC (Contact protection)
IP10 (Handle cover open)
Rated operational voltage [U_e]
690 V AC
Rated operational voltage [U_e]
440 V DC
Rated conditional short-circuit current
120 (500 V)
100 (690 V) kA
Flammability characteristics
Self-extinguishing as per UL 94
Description
Current paths of electrolytic copper, silver-plated
Successor to
017250
269140

Technical data

Electrical
Standards
IEC/EN 60947-3
Rated operational voltage [U_e]
690 V AC
Rated operational voltage [U_e]
440 V DC
Rated operational current [I_e]
250 A
Rated frequency [f]
40 - 60 Hz
Rated insulation voltage [U]
800 V AC
Total heat dissipation at I_{th} (without fuses) [P_d]
16 W
Heat dissipation at 80% (without fuses) [P_d]
10.2 W
Rated impulse withstand voltage [U_{imp}]
8 kV
Utilization category AC-23BRated operating voltage [U_e]
400 V AC
Utilization category AC-23BRated operating current [I_e]
250 A
Utilization category AC22BRated operating voltage [U_e]
500 V AC
Utilization category AC22BRated operating current [I_e]
250 A
Utilization category AC-21BRated operating voltage [U_e]
690 V AC
Utilization category AC-21BRated operating current [I_e]
250 A
Utilization category DC-22BRated operating voltage [U_e]
250 V DC
Utilization category DC-22BRated operating current [I_e]
250 A
Utilization category DC21BRated operating voltage [U_e]
440 V DC
Utilization category DC21BRated operating current [I_e]
250 A
Rated conditional short-circuit current
120 (500 V)
100 (690 V) kA
Rated short-time withstand current [I_{cw}]
10 kA
Max. fuseSize according to DIN VDE 0636-2
000 / 00
Max. fuseMax. permitted power loss per fuse link [P_d]
23 W
Lifespan, electrical [Operations]

200

Mechanical

Front degree of protection (XNH installed)

IP20 (Operating status)

IP2XC (Contact protection)

IP10 (Handle cover open)

Ambient temperature

-25 - +55 °C

Rated operating mode

Permanent operation

Activation

Dependent manual activation

Mounting position

Vertical, horizontal

Altitude

Max. 2000 m

Overvoltage category/pollution degree

III/3

RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)

Yes

Direction of incoming supply

as required

Lockable

Yes, optional

Sealable

Yes, Standard

Material characteristicsMaterial

Polyamide

Material characteristicsColour

Grey

Flammability characteristics

Self-extinguishing as per UL 94

Halogen-free

Yes

Voltage test

Yes, sliding inspection windows

Lifespan, mechanical [Operations]

1400

Track resistance

CTI 600

Heat deflection temperature

125 °C

Terminal capacity

Flange connectionBolt diameter

M10

Flange connectionCable lug max. width

37 mm

Flange connectionFlat busbar

30 x 10 mm

Box terminalStranded

35 - 150 Cu/Al mm²

Box terminalCopper strip [Number of segments x width x thickness]

10 x 16 x 0,8 mm

Box terminalStranded

25 - 150 Cu mm²

Box terminalCopper band [Number of segments x width x thickness]

6 x 16 x 0,8 mm

Clamp-type terminalStranded

10 - 150 Cu/Al mm²

Double clamp-type terminalStranded

2x (70 - 95) Cu/Al mm²

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n]

250 A

Heat dissipation per pole, current-dependent [P_{vid}]

5.3 W

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

16 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

Is the panel builder's responsibility.

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

$U_i = 800 \text{ V AC}$

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) / Fuse switch disconnecter (EC001040)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Fuse switch disconnecter (ecl@ss 10.0.1-27-37-14-01 [AKF058013])

Version as main switch

No

Version as safety switch

No

Max. rated operation voltage U_e AC

690 V

Rated permanent current I_u

250 A

Rated operation power at AC-23, 400 V

0 kW

Conditioned rated short-circuit current I_q

120 kA

Rated short-time withstand current I_{cw}

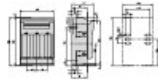
6 kA

Suitable for fuses

NH1

Number of poles
 3
 With error protection
 No
 Type of electrical connection of main circuit
 Screw connection
 Cable entry
 Other
 Equipped with connectors
 No
 Suitable for ground mounting
 Yes
 Suitable for front mounting 4-hole
 No
 Suitable for busbar mounting
 No
 Type of control element
 Cover grip
 Position control element
 Front side
 Motor drive optional
 No
 Motor drive integrated
 No
 Version as emergency stop installation
 No
 Degree of protection (IP), front side
 Other

Dimensions



Product photo



vt60115

Photo

Fuse switch-disconnectors



vt60215

Photo

Fuse switch-disconnectors

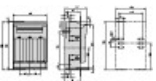


vt65015

Photo

Fuse switch-disconnectors

Dimensions single product



1230DIM-355

Line drawing

Instruction Leaflet

- [IL0131110ZU](#)
Asset
(PDF, Language independent)

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