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#### Worldwide English



XNH1-1-A250 - NH fuse-switch 1p flange connection M10 max. 150 mm²; mounting plate; NH1



183049 XNH1-1-A250

Overview Specifications Resources



# 183049 XNH1-1-A250

NH fuse-switch 1p flange connection M10 max. 150 mm²; mounting plate; NH1 EL-Nummer (Norway) 1624024

NH fuse switch-disconnector 1 pole with M10 flat terminal max. 150 mm²; mounting plate; for NH1 fuse-links

- 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

1 pole

Mounting type

DIN rails

Mounting plate

Size

1

Type of connection

Flat connection

Rated operational current [le]

250 A

Front degree of protection (XNH installed)

IP20 (Operating status)

IP2XC (Contact protection)

IP10 (Handle cover open)

Rated operational voltage [Ue]

690 V AC

Rated operational voltage [Ue]

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

#### Technical data

**Bectrical** 

Standards

IEC/EN 60947-3

Rated operational voltage [U<sub>e</sub>]

690 V AC

Rated operational voltage [Ue]

440 V DC

Rated operational current [le]

250 A

Rated frequency [f]

40 - 60 Hz

Rated insulation voltage [U]

800 V AC

Total heat dissipation at Ith (without fuses) [P]

Heat dissipation at 80% (without fuses) [P]

14.1 W

Rated impulse withstand voltage [U<sub>im</sub>]

Utilization category AC-23BRated operating voltage [Ua]

400 V AC

Utilization category AC-23BRated operating current [La]

250 A

Utilization category AC22BRated operating voltage [Ua]

500 V AC

Utilization category AC22BRated operating current [La]

250 A

Utilization category AC-21BRated operating voltage [Ua]

690 V AC

Utilization category AC-21BRated operating current [La]

250 A

Utilization category DC-22BRated operating voltage [Ue]

250 V DC

Utilization category DC-22BRated operating current [le]

250 A

Utilization category DC21BRated operating voltage [Ue] 440 V DC

Utilization category DC21BRated operating current [le]

250 A

Rated conditional short-circuit current

120 (500 V)

100 (690 V) kA

Rated short-time withstand current [lcw]

10 kA

Max. fuseSize according to DIN VDE 0636-2

Max. fuseMax. permitted power loss per fuse link [P]

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

111/3

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 characteristics Material

Polyamide

Material characteristicsColour

Grey

**Flarmability 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 Qu/AI mm2

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

10 x 16 x 0,8 mm

Box terminalStranded

25 - 150 Qu 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 mm<sup>2</sup>

Double clamp-type terminalStranded

2x (70 - 95) Ou/Al mm<sup>2</sup>

### Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [In]

250 A

Heat dissipation per pole, current-dependent [P<sub>id</sub>]

5.3 W

Equipment heat dissipation, current-dependent [Pvid]

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 ASSEVBLIES

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<sub>i</sub> = 800 V AC

10.9 Insulation properties 10.9.3 Impulse with stand 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 disconnector (EC001040)

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Fuse switch disconnector (ecl@ss10.0.1-27-37-14-01 [AKF058013])

Version as main switch

No

Version as safety switch

No

Max. rated operation voltage Ue AC

690 V

Rated permanent current lu

250 A

Rated operation power at AC-23, 400 V

0 MM

Conditioned rated short-circuit current lq

120 kA

Rated short-time withstand current lcw

6 kA

Suitable for fuses

NH1

Number of poles

1

With error protection

No

Type of electrical connection of main circuit

Screw connection

Cable entry

Other

Equipped with connectors

Νh

Suitable for ground mounting

Yes

Suitable for front mounting 4-hole

No

Suitable for busbar mounting

Type of control element

Cover grip

Position control element

Front side

Motor drive optional

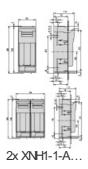
Motor drive integrated

Version as emergency stop installation

Degree of protection (IP), front side

Other

#### **Dimensions**

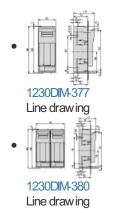


# **Product photo**



Fuse switch-disconnectors 1Pflange connection

# Dimensions single product



## **Instruction Leaflet**

• L0131119ZU

Asset

(PDF, Language independent)

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