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Worldwide English



Powering Business Worldwide

XNH2-S400-BT - NH fuse-switch 3p box terminal 95 - 300 mm<sup>2</sup>; busbar 60 mm NH2



183066 XNH2-S400-BT

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## 183066 XNH2-S400-BT

NH fuse-switch 3p box terminal 95 - 300 mm<sup>2</sup>; busbar 60 mm NH2

EL-Nummer (Norway)

1624041

NH fuse switch-disconnector 3 pole with box terminal 95 - 300 mm<sup>2</sup>; busbar 60 mm for NH2 fuse-links; optionally lockable with XNH-XLOCK and padlock; upper/lower cable connection can be changed in seconds.



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### Delivery program

Basic function

Basic device

Number of poles

3 pole

Mounting type

Busbars of 60 mm

Size

2

Type of connection

Box terminal

Rated operational current [I<sub>b</sub>]

400 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  
 Cable connection optionally at the top or bottom

## 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 [ $I_e$ ]  
 400 A  
 Rated frequency [f]  
 40 - 60 Hz  
 Rated insulation voltage [ $U_i$ ]  
 800 V AC  
 Total heat dissipation at  $I_{th}$  (without fuses) [ $P_d$ ]  
 36 W  
 Heat dissipation at 80% (without fuses) [ $P_d$ ]  
 22.9 W  
 Rated impulse withstand voltage [ $U_{imp}$ ]  
 8 kV  
 Utilization category AC-23B Rated operating voltage [ $U_e$ ]  
 400 V AC  
 Utilization category AC-23B Rated operating current [ $I_e$ ]  
 400 A  
 Utilization category AC-22B Rated operating voltage [ $U_e$ ]  
 500 V AC  
 Utilization category AC-22B Rated operating current [ $I_e$ ]  
 400 A  
 Utilization category AC-21B Rated operating voltage [ $U_e$ ]  
 690 V AC  
 Utilization category AC-21B Rated operating current [ $I_e$ ]  
 400 A  
 Utilization category DC-22B Rated operating voltage [ $U_e$ ]  
 440 V DC  
 Utilization category DC-22B Rated operating current [ $I_e$ ]  
 400 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  
 2  
 Max. fuseMax. permitted power loss per fuse link [ $P_f$ ]  
 34 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 (FLEX System)  
 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]  
 800  
 Track resistance  
 CTI 600  
 Heat deflection temperature  
 125 °C  
 Terminal capacity  
 Flange connectionBolt diameter  
 M10  
 Flange connectionCable lug max. width  
 48 mm  
 Flange connectionFlat busbar  
 40 x 10 mm  
 Box terminalStranded  
 95 - 300 Cu/Al mm<sup>2</sup>  
 Box terminalCopper strip [Number of segments x width x thickness]  
 6 x 16 x 0,8 - 10 x 32 x 1 mm  
 Box terminalStranded  
 25 - 240 Cu mm<sup>2</sup>  
 Box terminalCopper band [Number of segments x width x thickness ]  
 10 x 16 x 0,8 mm  
 Clamp-type terminalStranded  
 120 - 240 Cu/Al mm<sup>2</sup>  
 Double clamp-type terminalStranded  
 2x (120 - 150) Cu/Al mm<sup>2</sup>

## Design verification as per IEC/EN 61439

Technical data for design verification  
 Rated operational current for specified heat dissipation [ $I_n$ ]  
 400 A  
 Heat dissipation per pole, current-dependent [ $P_{id}$ ]  
 7.3 W  
 Equipment heat dissipation, current-dependent [ $P_{id}$ ]  
 22 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 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.

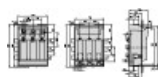
10.13 Mechanical function  
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## 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 (ec1@ss10.0.1-27-37-14-01 [AKF058013])  
Version as main switch  
No  
Version as safety switch  
No  
Max. rated operation voltage  $U_e \text{ AC}$   
690 V  
Rated permanent current  $I_u$   
400 A  
Rated operation power at AC-23, 400 V  
0 kW  
Conditioned rated short-circuit current  $I_k$   
120 kA  
Rated short-time withstand current  $I_{cw}$   
3 kA  
Suitable for fuses  
NH2  
Number of poles  
3  
With error protection  
No  
Type of electrical connection of main circuit

Frame clamp  
 Cable entry  
 Other  
 Equipped with connectors  
 No  
 Suitable for ground mounting  
 No  
 Suitable for front mounting 4-hole  
 No  
 Suitable for busbar mounting  
 Yes  
 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



vt61015

Photo

Fuse switch-disconnectors



vt61115

Photo

Fuse switch-disconnectors

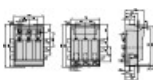


vt64515

Photo

Fuse switch-disconnectors

## Dimensions single product



1230DIM-367

Line drawing

## Instruction Leaflet

- IL0131112ZU

Asset

(PDF, Language independent)

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