





183072 XNH3-A630-BT



Overview



Specifications



Resources







DELIVERY PROGRAM

Delivery program >

Technical data >

Basic function Basic device

Design verification as

Number of poles 3 pole

per IEC/EN 61439 >

Mounting type DIN rails Technical data ETIM 7.0 Mounting plate

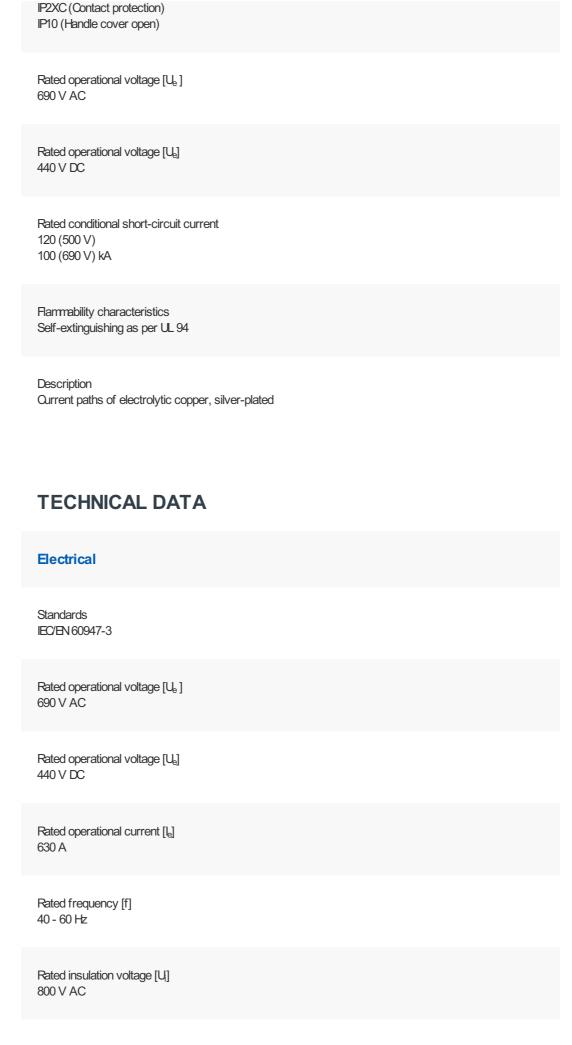
Dimensions >

Size 3

Type of connection Box terminal

Rated operational current [le] 630 A

Front degree of protection (XNH installed) IP20 (Operating status)



51 W
Heat dissipation at 80% (without fuses) [P _v] 32.5 W
Rated impulse withstand voltage [U _{mp}] 8 kV
Utilization category AC-23B Rated operating voltage [U _e] 400 V AC
Utilization category AC-23B Rated operating current [I _e] 630 A
Utilization category AC22B Rated operating voltage [U _e] 500 V AC
Utilization category AC22B Rated operating current [l _e] 630 A
Utilization category AC-21B Rated operating voltage [U _e] 690 V AC
Utilization category AC-21B Rated operating current [I _e] 630 A
Utilization category DC-22B Rated operating voltage [U _e] 440 V DC
Utilization category DC-22B Rated operating current [I _e] 630 A
Utilization category DC21B Rated operating voltage [U _e] 250 V DC

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

Rated operating current [le] 630 A Rated conditional short-circuit current 120 (500 V) 100 (690 V) kA Rated short-time withstand current $[I_{cw}]$ 10 kA Max. fuse Size according to DIN VDE 0636-2 3/2 Max. fuse Max. permitted power loss per fuse link [P] 48 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

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 characteristics Colour 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 connection Bolt diameter M10 Flange connection Cable lug max. width 56 mm

Flange connection
Flat busbar
50 x 10 mm

Box terminal Stranded 95 - 300 Qu/AI mm²

Box terminal Copper strip [Number of segments x width x thickness] $6 \times 16 \times 0.8 - 10 \times 32 \times 1 \text{ mm}$

Box terminal Stranded auf Anfrage mm²

Box terminal
Copper band [Number of segments x width x thickness]
11 x 21 x 1 mm

Clamp-type terminal Stranded 120 - 300 Qu/Al mm²

Double clamp-type terminal Stranded 2x (120 - 240) Ou/Al mm²

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n] 630 A

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

Equipment heat dissipation, current-dependent $[P_{id}]$ 22 W

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets 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 parts10.2.3.2 Verification of resistance of insulating materials to normal heatWeets 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 Weets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets 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 = 800 V AC

10.9 Insulation properties 10.9.3 Impulse withstand voltage Is the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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 FTIM 7.0

TECHNICAL DATA ETHNI 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 630 A
Rated operation power at AC-23, 400 V 0 kW
Conditioned rated short-circuit current lq 120 kA
Rated short-time withstand current lcw 3 kA
Suitable for fuses NH3
Number of poles

With error protection

Type of electrical connection of main circuit Frame clamp
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









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