



183065 XNH2-S400

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Basic function Basic device

Design verification as per IEC/EN 61439

Number of poles 3 pole

Mounting type Busbars of 60 mm

Technical data ETIM7.0

Size

Dimensions

Type of connection Flat connection

Rated operational current [I_e] 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 Successor to 107252 107253 284648 **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 [le] 400 A Rated frequency [f] 40 - 60 Hz

Rated insulation voltage [U] 800 V AC
Total heat dissipation at I _{th} (without fuses) [P _d] 36 W
Heat dissipation at 80% (without fuses) [P _v] 22.9 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] 400 A
Utilization category AC22B Rated operating voltage [U _e] 500 V AC
Utilization category AC22B Rated operating current [I _e] 400 A
Utilization category AC-21B Rated operating voltage [Ua] 690 V AC
Utilization category AC-21B Rated operating current [l _e] 400 A
Utilization category DC-22B Rated operating voltage [U _e] 440 V DC
Utilization category DC-22B Rated operating current [l _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. fuse Size according to DIN VDE 0636-2 Max. fuse Max. permitted power loss per fuse link [P_v] 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

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 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 C∏ 600
Heat deflection temperature 125 °C
Terminal capacity
Flange connection Bolt diameter M10
Flange connection Cable lug max. width 48 mm

Flange connection Flat busbar 40 x 10 mm

Box terminal Stranded 95 - 300 Ou/Al mm²

Box terminal Copper strip [Number of segments x width x thickness] 6 x 16 x 0,8 - 10 x 32 x 1 mm

Box terminal Stranded 25 - 240 Ou mm²

Box terminal
Copper band [Number of segments x width x thickness]
10 x 16 x 0,8 mm

Clamp-type terminal Stranded 120 - 240 Cu/Al mm²

Double clamp-type terminal Stranded 2x (120 - 150) Ou/Al mm²

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 resistanceWeets 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 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 Version as safety switch Max. rated operation voltage Ue AC 690 V Rated permanent current lu 400 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 NH2 Number of poles 3 With error protection Type of electrical connection of main circuit Screw connection

Cable entry Other

Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting Type of control element Cover grip Position control element Front side Motor drive optional No Motor drive integrated No Version as emergency stop installation Degree of protection (IP), front side Other

DIMENSIONS









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