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Worldwide English

XNH2-FCE-A400 - NH fuse-switch 3p flange connection M10 max. 240 mm²; mounting plate; electronic fuse monitoring; NH2

183061 XNH2-FCE-A400

183061 XNH2-FCE-A400

NH fuse-switch 3p flange connection M10 max. 240 mm²; mounting plate; electronic fuse monitoring; NH2
EL-Nummer (Norway) 1624036
NH fuse switch-disconnector 3 pole with M10 flat terminal max. 240 mm²; mounting plate; electronic fuse monitoring; for NH2 fuse-links; smartWire ready with XNH...-SWD-KIT

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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
Fuse control - electronic
Number of poles
3 pole
Mounting type
DIN rails
Mounting plate
Size
2
Type of connection
Flat connection
Rated operational current [I_e]
400 A
Front degree of protection (XNH installed)

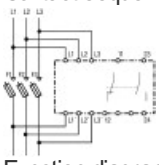
IP20 (Operating status)
IP2XC (Contact protection)
IP10 (Handle cover open)
Rated operational voltage [U_e]
690 V AC
Rated operational voltage [U_e]
440 V DC
Rated conditional short-circuit current
120 (500 V)
100 (690 V) kA
Flammability characteristics
Self-extinguishing as per UL 94
Description
Current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

Technical data

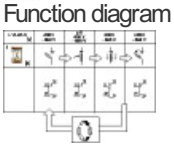
Electrical
Standards
IEC/EN 60947-3
Rated operational voltage [U_e]
690 V AC
Rated operational voltage [U_e]
440 V DC
Rated operational current [I_e]
400 A
Rated frequency [f]
40 - 60 Hz
Rated insulation voltage [U_i]
800 V AC
Total heat dissipation at I_{th} (without fuses) [P_v]
28 W
Heat dissipation at 80% (without fuses) [P_v]
17.8 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]
400 A
Utilization category AC22BRated operating voltage [U_e]
500 V AC
Utilization category AC22BRated operating current [I_e]
400 A
Utilization category AC-21BRated operating voltage [U_e]
690 V AC
Utilization category AC-21BRated operating current [I_e]
400 A
Utilization category DC-22BRated operating voltage [U_e]
440 V DC
Utilization category DC-22BRated 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_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
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]
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^2
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^2
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^2
Double clamp-type terminalStranded
2x (120 - 150) Cu/Al mm^2
Electronic fuse monitoring
Power supply
Self-supplied
Power consumption
1.5 VA
Overvoltage category
230/400V : III
500V : II
Frequency range
50 - 60
Input resistance
> 1 kOhm/V
Voltage inputs
400 - 500 (+/-10%) V AC

Temperature range
-5 - +55 °C
Operation indicator
1 LED green
Failure indicator
3 LEDs (F1, F2, F3) red
Degree of protection
IP3X
Function test
Test button for relay + LEDs
EMC (Electromagnetic compatibility)
IEC 61000-4-4
IEC 61000-4-5
Fuse links
NH with live handle straps
OutputsRelay output
1 NC
1 NO
OutputsMax. voltage
250 V AC
OutputsMax. voltage
24 V DC
OutputsMax. switching current
1 A
Contact sequence



Function diagram



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_{vid}]
7.3 W
Equipment heat dissipation, current-dependent [P_{vid}]
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 parts10.2.3.1 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 heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
U_i = 800 V AC
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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)
Electric 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
500 V
Rated permanent current Iu
400 A
Rated operation power at AC-23, 400 V
0 kW
Conditioned rated short-circuit current Iq
120 kA
Rated short-time withstand current Icw
3 kA
Suitable for fuses
NH2
Number of poles
3
With error protection
Yes
Type of electrical connection of main circuit
Screw connection
Cable entry
Other
Equipped with connectors
Yes
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

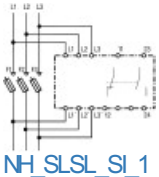
Other

Dimensions

Product photo

- 
  vt01316
  Photo
  Fuse switch-disconnectors 3P flange connection
- 
  vt04516
  Photo
  Fuse switch-disconnectors
- 
  vt06916
  Photo
  Fuse switch-disconnectors

Wiring diagram

- 
  NH_SLSL_SI_1
  Line drawing
  XNH...FCE.. fuse switch-disconnectors
- 
  NH_SLS_SI_Funkt_2
  Line drawing
  XNH fuse switch-disconnectors

Dimensions single product

- 1230DIM-360
  Line drawing

Instruction Leaflet

- IL0131110ZU
  Asset
  (PDF, Language independent)

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