DATASHEET - XNH3-A630



NH fuse-switch 3p flange connection M10 max. 300 mm²; mounting plate; NH3



Part no. XNH3-A630 183071 Catalog No.

EL-Nummer (Norway)

1624046

Technical data Electrical

Electrical			
Standards			IEC/EN 60947-3
Rated operational voltage	U _e	V AC	690
Rated operational voltage	U _e	V DC	440
Rated operational current	I _e	Α	630
Rated frequency	f	Hz	40 - 60
Rated insulation voltage	U _i	V AC	800
Total heat dissipation at I _{th} (without fuses)	P_{v}	W	51
Heat dissipation at 80% (without fuses)	P_{v}	W	32.5
Rated impulse withstand voltage	U_{imp}	kV	8
Utilization category AC-23B			
Rated operating voltage	U _e	V AC	400
Rated operating current	I _e	Α	630
Utilization category AC22B			
Rated operating voltage	U _e	V AC	500
Rated operating current	l _e	Α	630
Utilization category AC-21B			
Rated operating voltage	U _e	V AC	690
Rated operating current	I _e	Α	630
Utilization category DC-22B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	I _e	Α	DC values on request
Utilization category DC21B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	l _e	Α	DC values on request
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)
Rated short-time withstand current	I _{cw}	kA	10
Max. fuse			
Size according to DIN VDE 0636-2			3/2
Max. permitted power loss per fuse link	P_{ν}	W	48
Lifespan, electrical	Operations		200

Mechanical		
Front degree of protection (XNH installed)		IP20 (Operating status) IP2XC (Contact protection) IP10 (Handle cover open)
Ambient temperature	°C	-25 - +55
Rated operating mode		Permanent operation
Activation		Dependent manual activation
Mounting position		Vertical, horizontal
Altitude	m	Max. 2000
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 characteristics			
Material			Polyamide
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		?C	125
Terminal capacity			
Flange connection			
Bolt diameter			M10
Cable lug max. width		mm	56
Flat busbar		mm	50 x 10
Box terminal			
Stranded		mm^2	95 - 300 Cu/Al
Copper strip	Number of segments x width x thickness	mm	6 x 16 x 0,8 - 10 x 32 x 1
Box terminal			
Stranded		mm^2	auf Anfrage
Copper band	Number of segments x width x thickness	mm	11 x 21 x 1
Clamp-type terminal			
1-hole		mm^2	120 - 300 Cu/Al
Double clamp-type terminal			
Stranded		mm ²	2x (120 - 240) Cu/Al

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	630
Heat dissipation per pole, current-dependent	P_{vid}	W	7.3
Equipment heat dissipation, current-dependent	P _{vid}	W	22
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
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.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
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 V AC
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.

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 6.0

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@ss8.1-27-37-14-01 [AKF058010]) No Version as main switch Version as safety switch No Max. rated operation voltage Ue AC ٧ 690 Rated permanent current lu Α 630 kW 0 Rated operation power at AC-23, 400 V Conditioned rated short-circuit current Iq kΑ 120 Rated short-time withstand current lcw kΑ 3 Suitable for fuses NH3 3 Number of poles With error protection No Type of electrical connection of main circuit Screw connection Suitable for ground mounting Yes Suitable for front mounting 4-hole No Suitable for busbar mounting No Type of control element Cover grip Front side Position control element No Motor drive optional Motor drive integrated No Version as emergency stop installation No Degree of protection (IP), front side Other

Dimensions

