DATASHEET - XNH3-FCL-A630-BT



NH fuse-switch 3p box terminal 95 - 300 $\rm mm^2$; mounting plate; light fuse monitoring; NH3



Part no. Catalog No. XNH3-FCL-A630-BT 183074

EL-Nummer (Norway)

er 1624049

Delivery program

Basic function			Fuse control - light
Number of poles			3 pole
Mounting type			DIN rails Mounting plate
Size			3
Type of connection			Box terminal
Rated operational current	le	А	630
Front degree of protection (XNH installed)			IP20 (Operating status) IP2XC (Contact protection) IP10 (Handle cover open)
Rated operational voltage	U _e	V AC	690
Rated operational voltage	U _e	V DC	440
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)
Flammability characteristics			Self-extinguishing as per UL 94
Description			Current paths of electrolytic copper, silver-plated With optical signalling of triggered fuse-links

Technical data

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	le	А	630
Rated frequency	f	Hz	40 - 60
Rated insulation voltage	Ui	V AC	800
Total heat dissipation at I_{th} (without fuses)	Pv	W	51
Heat dissipation at 80% (without fuses)	Pv	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	le	А	630
Utilization category AC22B			
Rated operating voltage	U _e	V AC	500
Rated operating current	le	А	630
Utilization category AC-21B			
Rated operating voltage	U _e	V AC	690
Rated operating current	le	А	630
Utilization category DC-22B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	l _e	А	DC values on request
Utilization category DC21B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	l _e	А	DC values on request
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)

Poted short time withstand surrant	1	LA.	10
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	Pv	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			111/3
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			
Stranded		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

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	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 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 ٧ 690 Rated permanent current lu А 630 kW 0 Rated operation power at AC-23, 400 V Conditioned rated short-circuit current Iq kA 120 kA Rated short-time withstand current lcw 3 Suitable for fuses NH3 3 Number of poles With error protection Yes

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

