DATASHEET - XNH3-A630



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



Part no. XNH3-A630 Catalog No.

EL-Nummer

(Norway)

183071

1624046

Delivery program

Basic function			Basic device
Number of poles			3 pole
Mounting type			DIN rails Mounting plate
Size			3
Type of connection			Flat connection
Rated operational current	l _e	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	Ue	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
Successor to			026742 284691

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	l _e	Α	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	l _e	А	630
Utilization category AC22B			
Rated operating voltage	Ue	V AC	500
Rated operating current	l _e	А	630
Utilization category AC-21B			
Rated operating voltage	U _e	V AC	690
Rated operating current	l _e	А	630
Utilization category DC-22B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	le	А	DC values on request
Utilization category DC21B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	le	А	DC values on request
Rated conditional short-circuit current		kA	120 (500 V)

Antiput is and is a				100 (690 V)
Some according to DN VDE 00842Image of the seriesImage of the seriesIma	Rated short-time withstand current	I _{cw}	kA	10
Max perminal base perminal<	Max. fuse			
Line generationDerminePer mainPer mainP	Size according to DIN VDE 0636-2			3/2
departgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneralgeneral <t< td=""><td>Max. permitted power loss per fuse link</td><td>Pv</td><td>W</td><td>48</td></t<>	Max. permitted power loss per fuse link	Pv	W	48
Mechanical IP (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Lifesoan, electrical			200
Index of the second s	Mechanical	oporatione		
Rate operation mode Permanent speration Activating noods Devodes manual activation Mainting noods Max 2000 Devodes areagony pollution degree No Bold in account on terming apply No Direction directing apply Single account on terming apply Direction directing apply Single account on terming apply Material Single account on terming apply Material Yes, Standard Material Yes, Standard Material Yes, Standard Single account on terming apply Yes, Standard Material Yes, Standard Material Yes, Standard Single account on terming apply Yes, Standard Material Yes, Standard Material Yes, Standard Single account on terming account on t	Front degree of protection (XNH installed)			IP2XC (Contact protection)
Activities Image of the second s	Ambient temperature		°C	-25 - +55
Muning positionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusionInclusin	Rated operating mode			Permanent operation
Athue n Mac200 Deveroise catagery/polition degree 1/3 1/3 BdS (in secondance with Directive 2002/55/EC of the European Parliament and Direction of incoming supply is a required Direction of incoming supply is a required is a required Lockable is a required is a required Material characteristics is a required is a required Material characteristics is a required is a required Rammability characteristics is a required is a required Halogon free is a required	Activation			Dependent manual activation
ourspace at a party foil luit of degree III 3 Ball S in coordinace with Diroctive 2002/856/E of the European Parliament and Ball S in coordinace with Diroctive 2002/856/E of the European Parliament and Sealable Is a required Direction of incoming supply Is a required Is a sequired Sealable Is a sequired Is a sequired Material characteristics Is a sequired Is a sequired Material characteristics Is a sequired Polyminic Colour Is a sequired Is a sequired Solable characteristics Is a sequired Is a sequired Material characteristics Is a sequired Is a sequired Solable characteristics Is a sequired Is a sequired Material characteristics Is a sequired Is a sequired It is a sequired in the sequi	Mounting position			Vertical, horizontal
Raking in according with Directive 2002/99/EC of the European Parilament and Council of incoming supply Image: Source of incoming supply Image: Source of incoming supply Lockable Very Source of incoming supply Very Source of incoming supply Direction of incoming supply Very Source of incoming supply Very Source of incoming supply Sealable Very Source of incoming supply Very Source of incoming supply Material characteristics Very Source of incoming supply Very Source of incoming supply Material characteristics Very Source of incoming supply Very Source of incoming supply Material characteristics Very Source of incoming supply Very Source of incoming supply Material characteristics Very Source of incoming supply Very Source of incoming supply Visitage test Very Source of incoming supply Very Source of incoming supply Visitage test Very Source of incoming supply Very Source of incoming supply Visitage test Very Source of incoming supply Very Source of incoming supply Visitage test Very Source of incoming supply Very Source of incoming supply Visitage test Very Source of incoming supply Very Source of incoming supply	Altitude		m	Max. 2000
Concil Concil Concil Concil Concil Direction of noming supply Concil Concil Concil Cachable Concil Concil Concil Material characteristics Concil Concil Concil Material characteristics Concil Concil Concil Rammability tharacteristics Concil Concil Concil Rate concil Concil Concil Concil	Overvoltage category/pollution degree			III/3
Lockable Ses sphore Ses sphor	RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)			Yes
Solale Solard Solard Solard Matrial charateristics For anide For anide Matrial For anide For anide Balgen-free For anide in separateristics For anide in separateristics Naterial charateristics For anide in separateristics For anide in separateristics Naterial charateristics For anide in separateristics For anide in separateristics Naterial charateristics For anide in separateristics For anide in separateristics Naterial charateristics For anide in separateristics For anide in separateristics Naterial charateristics For anide in separateristics For anide in separateristics Naterial charateristics For anide in separateristics For anide in separateristics Naterial charateristics For anide in separateristics For anide in separateristics Naterial charateristics Indicateristics For anide in separateristics Standod Indicateristics For anide in separateristics Standod Indicateristics For anide in separateristics Standod Indicateristics For anide in separateristics <t< td=""><td>Direction of incoming supply</td><td></td><td></td><td>as required</td></t<>	Direction of incoming supply			as required
Material characteristics Material Mater	Lockable			Yes, optional
MatrialMatrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrialMarrial <t< td=""><td>Sealable</td><td></td><td></td><td>Yes, Standard</td></t<>	Sealable			Yes, Standard
Colour Ferminability characteristics Ferminability characteristics Ferminability characteristics Self-extinguishing as per UL 94 Halogen-free Yes Yes Voltage test Yes Self-extinguishing as per UL 94 Voltage test Yes Yes Tack resistance Yes Self-extinguishing as per UL 94 Hat deflection temperature Yes Self-extinguishing as per UL 94 Hat deflection temperature Yes Self-extinguishing as per UL 94 Hat deflection temperature Yes Self-extinguishing as per UL 94 Hat deflection temperature Yes Self-extinguishing as per UL 94 Hat deflection temperature Yes Self-extinguishing as per UL 94 Hat deflection temperature Yes Self-extinguishing as per UL 94 Hat deflection temperature Yes Self-extinguishing as per UL 94 Bot diameter Yes Self-extinguishing as per UL 94 Bot diameter Yes Self-extinguishing as per UL 94 Standed Yes Self-extinguishing as per UL 94 Standed Yes Self-extinguishing as per UL 94 Standed Yes Self-extinguishing as per UL 94 Copper shaf Yes Self-extinguishing as per UL 94 Standef Yes Se	Material characteristics			
Ammability characteristics Perfection Sel-extinguishing as per UL 94 Halogen-free Ves Yes Votage test Ves Yes Lifespon, mechanical Operations Porterions Porterions Track resistance Operations Total Conduction temperature Total Conduction temperature Forminal Capper strip Total Conduction Total Conduction Total Conduction Bot diameter Total Conduction Total Conduction Total Conduction Bot diameter Total Conduction Total Conduction Total Conduction Bot diameter Total Conduction Total Conduction Total Conduction Stranded Total Conduction Total Con	Material			Polyamide
Halogen-free Yes Voltage test Yes Lifespan, mechanical Yes Track resistance T1 600 Heat defection temperature T0 Terminal capacity Yes Bolt diameter Image connection Gotterminal Image connection Stranded Image connection Stranded Image connection Gotterminal Image connection Stranded Image connection Gotterminal Image connection Stranded Image connection Stranded Image connection Gotterminal Image connection Stranded Image connection	Colour			Grey
Voltage testFerrit and set of the set of	Flammability characteristics			Self-extinguishing as per UL 94
Lifespan, mechanical Operations Model Track resistance C1 600 Had deflection temperature C 15 Ferminal Capacity Model Model Boit diameter Model Model Boit diameter Model Model Boit diameter Model Model Boit diameter Model Model Standed Model Solo Solo Cu/Al Box terminal Segments xivith x xix	Halogen-free			Yes
Track resistance It 600 Head deflection temperature TC Flange connection It 600 Bolt diameter It 600 Cable lug max. width It 600 Flat busbar It 600 Boxt deminal It 600 Stranded It 600 Copper strip It maker structure Stranded It 600 Strande It 600 <td< td=""><td>Voltage test</td><td></td><td></td><td>Yes, sliding inspection windows</td></td<>	Voltage test			Yes, sliding inspection windows
Head deflection temperature *C 35 Flange connection * * Bolt diameter MI * Cable lug max. width mm 5 Flat busbar MM * Box terminal * MM Stranded MM * Copper strip Mumber of symmetry, width with with with with with with with wi	Lifespan, mechanical	Operations		800
Ferrinal capacity Image connection Image connection <t< td=""><td>Track resistance</td><td></td><td></td><td>CTI 600</td></t<>	Track resistance			CTI 600
Flage connection Image connection <td>Heat deflection temperature</td> <td></td> <td>°C</td> <td>125</td>	Heat deflection temperature		°C	125
Indianeter Indianation Indianation Indianation Indianation Indianation Indianation	Terminal capacity			
Cable lug max. width mm 6 Flat busbar 5×0 5×0 Box terminal FM 6×0 5×00 Copper strip mm 6×00 6×00 6×00 Box terminal FM 6×00 6×00 6×00 Box terminal FM 6×00 6×00 6×00 Box terminal FM 6×00 6×00 6×00 Stranded FM mm 6×00 6×00 Copper band FM mm andrage mm Stranded FM mm mm mm Copper band FM mm mm mm Stranded FM mm mm mm Stranded FM FM FM FM Strande FM FM FM FM Strande FM FM FM FM Strande FM FM FM FM	Flange connection			
Flat bashar mm 50×10 Box terminal mm ² 5-300 Cu/Al Copper strip Number of segments vickhe ses mm ² 5-300 Cu/Al Box terminal Number of segments vickhe ses mm ² 5-300 Cu/Al Box terminal Number of segments vickhe ses mm ² 5-300 Cu/Al Box terminal Image: Segments vickhe ses mm ² 5-300 Cu/Al Copper band Image: Segments vickhe ses mm ² Image: Segments vickhe ses Champ-type terminal Image: Segments vickhe ses Image: Segments vickhe ses Image: Segments vickhe ses Stranded Image: Segments vickhe ses Image: Segments vickhe ses Image: Segments vickhe ses Champ-type terminal Image: Segments vickhe ses Image: Segments vickhe ses Image: Segments vickhe ses Stranded Image: Segments vickhe ses Image: Segments vickhe ses Image: Segments vickhe ses Clamp-type terminal Image: Segments vickhe ses Image: Segments vickhe ses Image: Segments vickhe ses Stranded Image: Segments vickhe ses Image: Segments vickhe ses Image: Segments vickhe ses Stranded Image: Segments vickhe ses Image: Segments vickhe ses Image: Segments vickhe ses Stranded Image: Segments vickhe ses Image: Segments vickhe ses<	Bolt diameter			M10
Box terminal Image So Cu/Al Copper strip Mumber of swidth's swidth'swidth's swidth's swidth'swidth's swidth's swidth's swidth'	Cable lug max. width		mm	56
Stranded md ² 5-300 Cu/Al Copper strip Number of switch's switch'switch's switch's switch'switch's switch'switch's switch's s	Flat busbar		mm	50 x 10
Copper strip Number of swidth x swidth	Box terminal			
segments width x segments width x Box terminal Stranded Image Copper band Image Stranded Image Comper terminal Image Stranded Image Str			mm ²	
Stranded Imm Imm Imm Copper band Suggers by switch x Imm Imm Imm Clamp-type terminal Imm Imm Imm Imm Stranded Imm Imm Imm Imm Duble clamp-type terminal Imm Imm Imm	Copper strip	segments x width x	mm	6 x 16 x 0,8 - 10 x 32 x 1
Copper band Number of segments, width x, width	Box terminal			
segments xwidth x thickness segments xwidth x thickness Clamp-type terminal mm² Stranded mm² Duble clamp-type terminal Ima²	Stranded		mm ²	auf Anfrage
Stranded mm ² 120 - 300 Cu/Al Double clamp-type terminal Image: Clamp - type terminal Image: Clamp - type terminal		segments x width x	mm	11 x 21 x 1
Double clamp-type terminal			2	120 - 200 Cu/Al
			mm²	120 - 300 GU/AI
Stranded mm ² 2x (120 - 240) 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	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			

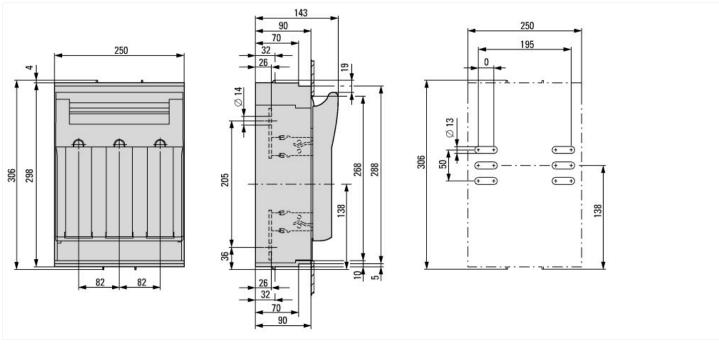
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product 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 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		V	690
Rated permanent current lu		А	630
Rated operation power at AC-23, 400 V		kW	0
Conditioned rated short-circuit current Iq		kA	120
Rated short-time withstand current Icw		kA	3
Suitable for fuses			NH3
Number of poles			3
With error protection			No
Type of electrical connection of main circuit			Screw connection
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



Additional product information (links)

IL0131110ZU Fuse switch-disconnector XNH

IL0131110ZU Fuse switch-disconnector XNH ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL0131110ZU2017_02.pdf