DATASHEET - XNH00-FCL-A160



NH fuse-switch 3p flange connection M8 max. 95 $\rm mm^2$; mounting plate; light fuse monitoring; NH000 & NH00



Part no. XNH00-FCL-A160 Catalog No. 183027

10001

EL-Nummer (Norway)

1624002

Delivery program

		Fuse control - light
		3 pole
		DIN rails Mounting plate
		00
		Flat connection
I _e	Α	160
		IP20 (Operating status) IP2XC (Contact protection) IP10 (Handle cover open)
U _e	V AC	690
U _e	V DC	440
	kA	120 (500 V) 100 (690 V)
		Self-extinguishing as per UL 94
		Current paths of electrolytic copper, silver-plated With optical signalling of triggered fuse-links
	U _e	U _e VAC

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	le	Α	160
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	9
Heat dissipation at 80% (without fuses)	P_{v}	W	5.8
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	Α	160
Utilization category AC22B			
Rated operating voltage	U _e	V AC	500
Rated operating current	I _e	Α	160
Utilization category AC-21B			
Rated operating voltage	U _e	V AC	690
Rated operating current	I _e	Α	160
Utilization category DC-22B			
Rated operating voltage	U _e	V DC	250
Rated operating current	l _e	Α	160
Utilization category DC21B			
Rated operating voltage	U _e	V DC	440
Rated operating current	l _e	Α	160
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)

Name, Fusion of DIN IVE E008-2 See according to DIN IVE E008-2 Wache permitted prover loss per fuse lank Wache permitted prover loss per fuse lank Wacher Wacher Funt degree of protection DONI installed) Fort degree actegory/pollution degree Ratis in accordance with Directive 2009/29(ED of the European Parliament and DONI installed) Fort Doni installed Fort Doni in	Rated short-time withstand current	I _{cw}	kA	7
Max permitted power loss per fuse link	Max. fuse			
Disparation	Size according to DIN VDE 0636-2			000 / 00
Disparation	Max. permitted power loss per fuse link	P_{v}	W	12
Monthanical Front degree of protocion (XNII installed]	Lifespan, electrical			300
Part				
Rated operating mode Activation Mounting position Activation Overvoltage category/pollution degree RatS (in accordance with Directive 2002/95/EC of the European Parliament and Council) Direction of incoming supply Colour Colour Rated activation Material characteristics Material Colour Ramability characteristics Material Activate Activ				IP2XC (Contact protection)
Activation Mounting position Altitude Mounting position Altitude Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Direction of incoming supply Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Direction of incoming supply Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Council) Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance with Directive 2002/95/EC of the European Parliament and Rolfs (in accordance	Ambient temperature		°C	-25 - +55
Mounting position Altitude Overoltage category/pollution degree Overoltage category/p	Rated operating mode			Permanent operation
Altitude Overvoltage category/pollution degree RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Directive 2002/95/EC of the European Parliament and RoHS (in accordance with Parliament and RoHS (in accorda	Activation			Dependent manual activation
Overvoltage category/pollution degree III3 IIII3 RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) Yes Yes Dorection of incoming supply Yes, optional Yes, optional Salabibe Yes, Standard Yes, Standard Material Characteristics Yes Polyamide Material Characteristics Yes Yes Halogen-free Yes Yes Voltage test Yes Yes United parl mechanical Yes Yes Itespan, mechanical Yes Yes Net deflection temperature Yes Yes Tange cannection Bolt diameter Yes Yes Cable lug max. width Yes Yes Box terminal Yes Yes Box terminal Yes Yes Stranded Yes Yes Yes Yes Yes Yes Yes Yes Tange cannection <td< td=""><td>Mounting position</td><td></td><td></td><td>Vertical, horizontal</td></td<>	Mounting position			Vertical, horizontal
Rolts (in accordance with Directive 2002/95/EC of the European Parliament and Council) Direction of incoming supply Lockable Direction of incoming supply Lockable Material characteristics Material Colour Rammability characteristics Material charac	Altitude		m	Max. 2000
Council) Direction of incoming supply Lockable Salable Material characteristics Material Colour Rammability characteristics Material Ralogen-free Voltage test Ves, sliding inspection windows CT1600 CT1600 CT1600 CT1600 CT1600 CT1600 CT1600 Rammability characteristics Material capacity Range connection Bolt diameter Cable lug max. width Flat busbar Box terminal Stranded Copper strip Summer summability characteristics Rammability chara	Overvoltage category/pollution degree			III/3
Lockable Sealable Material characteristics Material characteristics Material Colour Flammability characteristics Material Colour Flammability characteristics Material Colour Flammability characteristics Voltage test Uoltage test Lifespan, mechanical Track resistance Heat deflection temperature Terminal capacity Flange connection Bolt diameter Coble lug max. width Flat busbar Box terminal Stranded Copper strip Stranded Number of segments x width x thickness Box terminal Stranded Number of segments x width x thickness Number of segments x width x thickness x width x t				Yes
Sealable Material Characteristics Material Colour Flammability characteristics Malogen-free Voltage test Lifespan, mechanical Track resistance Heat deflection temperature Temperature Bolt diameter Cable lug max. width Flat busbar Box terminal Stranded Copper strip Stranded Stranded Copper band Number of segments x width x trickness Number of segments x width	Direction of incoming supply			as required
Material Colour Polyamide Flammability characteristics Self-extinguishing as per UL 94 Halogen-free Yes Voltage test Yes, sliding inspection windows Lifespan, mechanical Operations 1400 Track resistance CTI 600 Heat deflection temperature CTI 600 Terminal capacity Flange connection M8 Bott diameter M8 Cable lug max. width mm 25 Flat busbar mm 20 x 10 Box terminal Stranded Number of segments x width x witckness mm 9 x 9 x 0.8 Box terminal Stranded mm 1,5 - 90 Cu Copper strip Number of segments x width x w	Lockable			Yes, optional
Material Colour Flammability characteristics Halogen-free Voltage test Lifespan, mechanical Operations Lifespan, mechanical Operations Correction temperature Teack resistance Heat deflection temperature Teminal capacity Flange connection Bolt diameter Cable lug max width Flat busbar Box terminal Stranded Copper strip Stranded Copper band Number of segments x width x thickness Tranded Copper band Number of segments x width	Sealable			Yes, Standard
Colour Flammability characteristics Halogen-free Voltage test Lifespan, mechanical Operations Lifespan, mechanical Operations Voltage test Voltage test Voltage test Voltage test Voltage test Ves. sliding inspection windows Ves. description Ves. descript	Material characteristics			
Flammability characteristics Halogen-free Voltage test Lifespan, mechanical Track resistance Heat deflection temperature Teminal capacity Flange connection Bolt diameter Cable lug max. width Flat busbar Stranded Stranded Copper strip Number of segments x width x thickness Number of segments Stranded Number of segments Stranded Number of segments X width x X width x Number of segments X width x X width x Number of segments X width x X width	Material			Polyamide
Halogen-free Voltage test Lifespan, mechanical Track resistance Heat deflection temperature Terminal capacity Flange connection Bolt diameter Cable lug max. width Flat busbar Stranded Copper strip Stranded Stranded Touch resistance Number of segments x width x thickness Number of segments x width x thickness x width x thickness x width x thickness x	Colour			Grey
Voltage test Lifespan, mechanical Track resistance Heat deflection temperature Terminal capacity Flange connection Bolt diameter Cable lug max. width Flat busbar Stranded Copper strip Box terminal Stranded Stranded Copper band Number of segments x width x thickness Number of segments x width x	Flammability characteristics			Self-extinguishing as per UL 94
Lifespan, mechanical Track resistance Heat deflection temperature Terminal capacity Flange connection Bolt diameter Cable lug max. width Flat busbar Box terminal Copper strip Stranded Stranded Copper band Number of segments x width x thickness Number of segments x width	Halogen-free			Yes
Track resistance CTI 600 Heat deflection temperature °C 125 Terminal capacity Flange connection M8 Bolt diameter M8 Cable lug max. width mm 25 Flat busbar mm 20 x 10 Box terminal mm² 1,5 - 95 Cu Copper strip Number of segments x width x thickness mm 9 x 9 x 0,8 Box terminal mm² 1,5 - 50 Cu Copper band Number of segments x width x width x mm 6 x 9 x 0,8	Voltage test			Yes, sliding inspection windows
Heat deflection temperature Terminal capacity Flange connection Bolt diameter Cable lug max. width Flat busbar Box terminal Stranded Copper strip Summer and a segments x width x thickness Box terminal Stranded Number of segments x width x thickness Box terminal Stranded Number of segments x width x thickness Mumber of segments x width x thickness Box terminal Stranded Number of segments x width x thickness Mumber of segments x width x thickness	Lifespan, mechanical	Operations		1400
Terminal capacity Flange connection Bolt diameter Cable lug max. width Flat busbar Box terminal Stranded Copper strip Summary Stranded Copper strip Stranded Stranded Stranded Stranded Stranded Number of segments x width x thickness mm 2 1,5 - 95 Cu 9 x 9 x 0,8 mm 2 1,5 - 50 Cu Copper band Number of segments x width x thickness mm 2 1,5 - 50 Cu Copper band Number of segments x width x wi	Track resistance			CTI 600
Flange connection Bolt diameter Cable lug max. width That busbar Box terminal Stranded Copper strip Stranded St	Heat deflection temperature		°C	125
Bolt diameter Cable lug max. width Flat busbar Box terminal Stranded Copper strip Supermore Stranded Stranded Number of segments x width x thickness Box terminal Stranded Number of segments x width x thickness Box terminal Stranded Number of segments x width x thickness Box terminal Stranded Number of segments x width x width x thickness M8 M8 Discription: 1,5 - 95 Cu mm 1,5 - 50 Cu mm 6 x 9 x 0,8	Terminal capacity			
Cable lug max. width Flat busbar Box terminal Stranded Copper strip Number of segments x width x thickness Stranded Stranded Number of segments x width x thickness Number of segments x width x widt	Flange connection			
Flat busbar Box terminal Stranded Copper strip Number of segments x width x thickness Stranded Stranded Number of segments x width x thickness Number of segments x width x width x thickness Number of segments x width x wi	Bolt diameter			M8
Box terminal Stranded Copper strip Number of segments x width x thickness Box terminal Stranded Copper band Number of segments x width x thickness Mumber of segments x width x width x thickness Mumber of segments x width x width x	Cable lug max. width		mm	25
Stranded Copper strip Number of segments x width x thickness Box terminal Stranded Copper band Number of segments x width x thickness Mumber of segments x width x width x thickness Number of segments x width x	Flat busbar		mm	20 x 10
Copper strip Number of segments x width x thickness Box terminal Stranded Copper band Number of segments mm² 1,5 - 50 Cu mm² 6 x 9 x 0,8	Box terminal			
Segments x width x thickness Box terminal Stranded Copper band Number of segments x width x Number of segments x width x	Stranded		mm ²	1,5 - 95 Cu
Stranded nmm ² 1,5 - 50 Cu Copper band Number of segments x width x	Copper strip	segments x width x	mm	9 x 9 x 0,8
Copper band Number of mm 6 x 9 x 0,8 segments x width x	Box terminal			
Copper band Number of mm 6 x 9 x 0,8 segments x width x	Stranded		mm ²	1,5 - 50 Cu
unioni i da		segments		
Clamp-type terminal	Clamp-type terminal			
Stranded nm ² 10 - 70 Cu/Al	Stranded		mm ²	10 - 70 Cu/AI
Double clamp-type terminal	Double clamp-type terminal			
Stranded mm ² -	Stranded		mm ²	-

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	160
Heat dissipation per pole, current-dependent	P _{vid}	W	3
Equipment heat dissipation, current-dependent	P _{vid}	W	9
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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

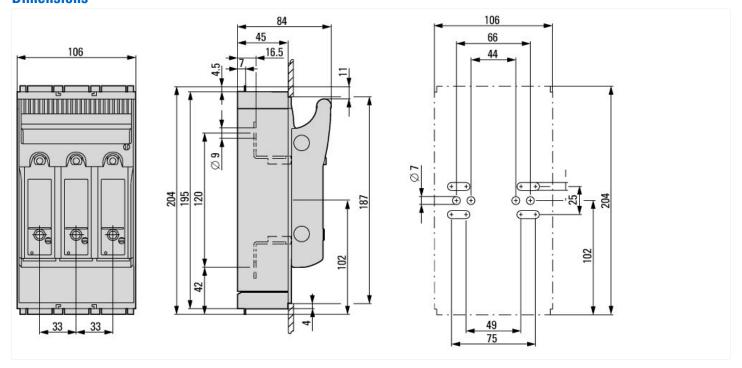
Technical data ETIM 7.0

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])

(eci@ss10.0.1-2/-3/-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	160
Rated operation power at AC-23, 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	120
Rated short-time withstand current lcw	kA	7
Suitable for fuses		NH00
Number of poles		3
With error protection		Yes
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)

IL0131109ZU Fuse switch-disconnector XNH

IL0131109ZU Fuse switch-disconnector XNH

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL0131109ZU2015_11.pdf