



Part no. Article no. XNH00-FCL-A160 183027

#### **Delivery programme**

Basic function			Fuse control - light
Number of poles			3 pole
Mounting type			DIN rails Mounting plate
Size			00
Type of connection			Flat connection
Rated operational current	le	А	160
Front degree of protection (XNH installed)			IP20 (Operating status) IP2XC (Contact protection) IP10 (Handle cover open)
Rated operational voltage	Ue	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 With optical signalling of triggered fuse-links

#### **Technical data** trical

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Electrical			
Standards			IEC/EN 60947-3
Rated operational voltage	U <sub>e</sub>	V AC	690
Rated operational voltage	U <sub>e</sub>	V DC	440
Rated operational current	le	А	160
Rated frequency	f	Hz	40 - 60
Rated insulation voltage	Ui	V AC	800
Total heat dissipation at $I_{th}$ (without fuses)	Pv	W	9
Heat dissipation at 80% (without fuses)	Pv	W	5.8
Rated impulse withstand voltage	U <sub>imp</sub>	kV	8
Utilization category AC-23B			
Rated operating voltage	U <sub>e</sub>	V AC	400
Rated operating current	I <sub>e</sub>	А	160
Utilization category AC22B			
Rated operating voltage	U <sub>e</sub>	V AC	500
Rated operating current	le	А	160
Utilization category AC-21B			
Rated operating voltage	U <sub>e</sub>	V AC	690
Rated operating current	le	А	160
Utilization category DC-22B			
Rated operating voltage	U <sub>e</sub>	V DC	250
Rated operating current	le	А	160
Utilization category DC21B			
Rated operating voltage	U <sub>e</sub>	V DC	440
Rated operating current	I <sub>e</sub>	А	160
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)
Rated short-time withstand current	I <sub>cw</sub>	kA	7

Max, fuse			
Size according to DIN VDE 0636-2			000 / 00
Max. permitted power loss per fuse link	P <sub>v</sub>	W	12
		vv	
Lifespan, electrical Mechanical	Operations		300
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		1400
Track resistance			CTI 600
Heat deflection temperature		?C	125
Terminal capacity			
Flange connection			
Bolt diameter			M8
Cable lug max. width		mm	25
Flat busbar		mm	20 x 10
Box terminal			
Stranded		mm <sup>2</sup>	1,5 - 95 Cu
Copper strip	Number of segments	mm	9 x 9 x 0,8
	x width x thickness		
Box terminal			
Stranded		mm <sup>2</sup>	1,5 - 50 Cu
Copper band	Number of segments x width x thickness	mm	6 x 9 x 0,8
Clamp-type terminal			
Stranded		mm <sup>2</sup>	10 - 70 Cu/Al
Double clamp-type terminal			
Stranded		mm <sup>2</sup>	

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	160
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	3
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	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 abnormal heat       Meets the product standard's requirements.         10.2.3.3 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.3.3 Verification of resistance of insulating materials to abnormal heat       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.         10.4 Clearances and creepage distances       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         10.7 Internal electrical circuits and connections       Meets the product 's responsibility.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.9 Insulation properties       Is the panel builder's responsibility.
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.         10.2.7 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       Does not apply, since the entire switchgear needs to be evaluated.         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       Meets the panel builder's responsibility.         10.7 Internal electrical circuits and connections       Sthe panel builder's responsibility.         10.7 Internal electrical circuits and connections       Is the panel builder's responsibility.         10.7 Internal electrical circuits and connections       Is the panel builder's responsibility.
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10.9 Insulation properties
10.9.2 Power-frequency electric strength Ui = 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.

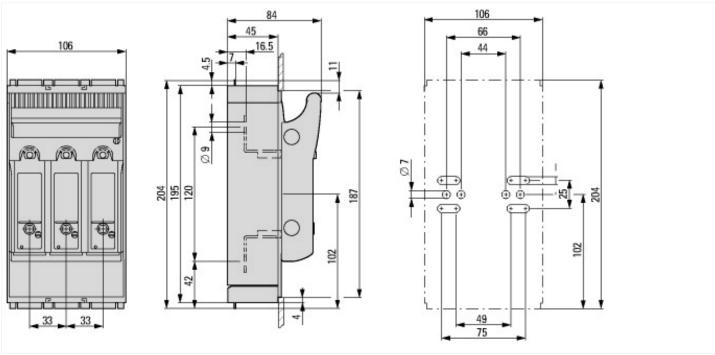
### **Technical data ETIM 6.0**

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])

Version as main switch		Yes
Version as safety switch		Yes
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	А	160
Rated operation power at AC-23, 400 V	kW	64
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		Bolt connection
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		Yes
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		IP2X

# 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