DATASHEET - XNH00-FCL-S160-BT1



NH fuse-switch 3p box terminal 1,5 - 95 $\rm mm^2$; busbar 60 mm; light fuse monitoring; NH000 & NH00



Part no. XNH00-FCL-S160-BT1 Catalog No. 183037

Delivery	

		Fuse control - light
		3 pole
		Busbars of 60 mm
		00
		Box terminal
l _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 Cable connection optionally at the top or bottom With optical signalling of triggered fuse-links
	Ue	U _e VAC

Technical data

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	l _e	Α	160
Rated frequency	f	Hz	40 - 60
Rated insulation voltage	Ui	V AC	800
Total heat dissipation at I_{th} (without fuses)	P_{v}	W	14
Heat dissipation at 80% (without fuses)	P_{v}	W	9
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	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	I _e	Α	160
Utilization category DC21B			
Rated operating voltage	U _e	V DC	440
Rated operating current	I _e	Α	160
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)

Rated short-time withstand current	I _{cw}	kA	7
Max. fuse			
Size according to DIN VDE 0636-2			000 / 00
Max. permitted power loss per fuse link	P_{v}	W	12
Lifespan, electrical	Operations		300
Mechanical	openano		
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 (FLEX System)
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^2	1,5 - 95 Cu
Copper strip	Number of segments x width x thickness	mm	9 x 9 x 0,8
Box terminal			
Stranded		mm ²	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^2	10 - 70 Cu/Al
Double clamp-type terminal			
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	4.7
Equipment heat dissipation, current-dependent	P _{vid}	W	14
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 to observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must to observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

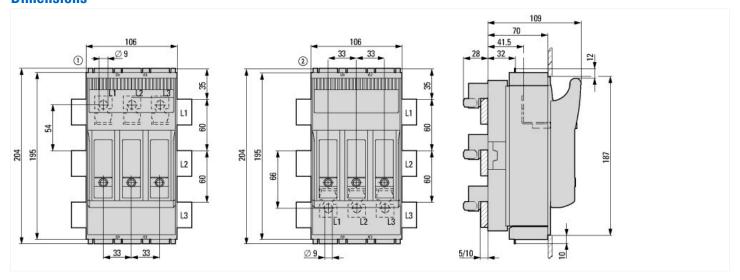
Technical data ETIM 7.0

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 safety switch No Max. rated operation voltage Ue AC V 690 Rated permanent current Iu A 160 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 7 Suitable for fuses NH00 NH00 Number of poles Yes 3 Vith error protection Yes Frame clamp Cable entry Other No Equipped with connectors No No Suitable for ground mounting No No Suitable for front mounting 4-hole No No Suitable for busbar mounting Yes Cover grip Type of control element Font side No Motor drive optional No No Motor drive integrated No No Worse of control element Font side No Motor drive integrated No No	(ecl@ss10.0.1-27-37-14-01 [AKF058013])		
Max. rated operation voltage Ue AC V 699 Rated permanent current Iu A 160 Rated operation power at AC-23, 400 V kW 0 Conditioned rated short-circuit current Iq kA 120 Rated short-time withstand current Icw kM 7 Suitable for fuses MH00 MH00 Number of poles 3 3 Vith error protection Yes Trame clamp Type of electrical connection of main circuit Frame clamp Other Equipped with connectors No No Suitable for ground mounting No No Suitable for front mounting 4-hole No Vers Suitable for busbar mounting Yes Cover grip Position control element Cover grip Front side Motor drive optional No No Motor drive integrated No No Version as emergency stop installation No No	Version as main switch		No
Rated permanent current lu Rated operation power at AC-23, 400 V Conditioned rated short-circuit current Iq Rated short-time withstand current Icw Rated short-time withstand current Icw Suitable for fuses Number of poles With error protection Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for fort mounting 4-hole Suitable for busbar mounting Type of control element Position control element Motor drive optional Motor drive integrated Wersion as emergency stop installation	Version as safety switch		No
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Suitable for fuses Number of poles Suitable for fuses Number of poles Suitable for fuses Number of poles Suitable for protection Type of electrical connection of main circuit Cable entry Cable entry Cipe of electrical connectors Suitable for ground mounting Suitable for ground mounting Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for busbar mounting Type of control element Cover grip Position control element Motor drive optional Motor drive integrated Vesion as emergency stop installation NH00	Conditioned rated short-circuit current Iq	kA	120
Number of poles With error protection Yes Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for busbar mounting Yes Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation	Rated short-time withstand current lcw	kA	7
With error protection Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for font mounting Suitable for busbar mounting Type of control element Position control element Motor drive optional Motor drive integrated Vesion as emergency stop installation Yes Yes No Yes No No No No No No No No No N	Suitable for fuses		NH00
Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Frame clamp Other Chapped Chapped	Number of poles		3
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Suitable for busbar mounting Yes Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Yes Yes Cover grip Front side No No No No No No No No No N	Suitable for ground mounting		No
Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Cover grip Front side No No No	Suitable for front mounting 4-hole		No
Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Front side No No No	Suitable for busbar mounting		Yes
Motor drive optional No Motor drive integrated No Version as emergency stop installation No	Type of control element		Cover grip
Motor drive integrated No Version as emergency stop installation No	Position control element		Front side
Version as emergency stop installation No	Motor drive optional		No
	Motor drive integrated		No
Degree of protection (IP), front side Other	Version as emergency stop installation		No
	Degree of protection (IP), front side		Other

Dimensions



Additional product information (links)

IL0131111ZU Fuse switch-disconnector XNH

IL0131111ZU Fuse switch-disconnector XNH

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL0131111ZU2016_01.pdf