DATASHEET - XNH00-1-A160-BT



NH fuse-switch 1p box terminal 1,5 - 95 $\mathrm{mm^2}$; mounting plate; NH000 & NH00

Powering Business Worldwide

Part no. XNH00-1-A160-BT 183032 Catalog No.

EL-Nummer (Norway)

1624007

Technical data Electrical

Licotriodi			
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	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	Ue	V AC	690
Rated operating current	l _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	le	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_{ν}	W	12
Lifespan, electrical	Operations		300
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		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			
1-hole		mm^2	10 - 70 Cu/Al
Double clamp-type terminal			
Stranded		mm ²	

Design verification as per IEC/EN 61439

5001gii 1011110411011 410 por 120/21101 100			
echnical 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
EC/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 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 Image: control of the propertion of tage Ue AC Image: control of the propertion of tage Ue AC Version as safety switch Version	(ecl@ss8.1-2/-3/-14-01 [AKF058010])		
Max. rated operation voltage Ue AC V 690 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 Number of poles 1 1 With error protection No Frame clamp Suitable for ground mounting Yes Ves Suitable for front mounting 4-hole No No Suitable for front mounting 4-hole No No Suitable for bushar mounting No No Type of control element No Cover grip Position control element No Cover grip Position control element No 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-circuit current Iq Rated permanent current Iq Rated permanent current Icw Rated short-circuit current Iq Rated operation power at AC-23,400 V Rated Short-circuit current Iq Rated operation Photo Rated short-circuit current Iq Rate Short-circuit current Iq Rate Short-circuit current Iq Rated operation Photo Rated Short-circuit current Iq Rate Short-circuit current Iq Rated Short-circuit current Iq Rate Short-circuit current	Version as safety switch		No
Rated operation power at AC-23, 400 V Conditioned rated short-circuit current Iq Rated short-time withstand current Icw Rated short-circuit current Iq Rated Special Speci	Max. rated operation voltage Ue AC	V	690
Conditioned rated short-circuit current Iq	Rated permanent current lu	Α	160
Rated short-time withstand current lcw Suitable for fuses NH00 Number of poles Nith error protection Type of electrical connection of main circuit 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 Ves No No Cover grip Front side No No No No No No No No No N	Rated operation power at AC-23, 400 V	kW	0
Suitable for fuses Number of poles 1 With error protection No Type of electrical connection of main circuit Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting Ves Suitable for busbar mounting No Type of control element Cover grip Position control element Motor drive optional Motor drive integrated Vesion as emergency stop installation NHOO	Conditioned rated short-circuit current Iq	kA	120
Number of poles With error protection No Type of electrical connection of main circuit Frame clamp Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting No Suitable for outrol element Type of control element Motor drive optional Motor drive integrated Version as emergency stop installation In the suitable for sum of the	Rated short-time withstand current lcw	kA	7
With error protection Type of electrical connection of main circuit Frame clamp 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 No No No No No No No No No	Suitable for fuses		NH00
Type of electrical connection of main circuit Frame clamp Yes Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting No Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Frame clamp Yes No Cover grip Front side No No No No No No No No No N	Number of poles		1
Suitable for ground mounting Yes Suitable for front mounting 4-hole No Suitable for busbar mounting No Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Yes No Yes No No Version as emergency stop installation Yes No No No No No No No No No N	With error protection		No
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	Type of electrical connection of main circuit		Frame clamp
Suitable for busbar mounting No Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation No No No	Suitable for ground mounting		Yes
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	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		No
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



