NH fuse-switch 3p box terminal 1,5 - 95 $\mathrm{mm^2}$; busbar 60 mm; NH000 & NH00



Part no. XNH00-S160-BT1

183034

EL Number (Norway)

1624009

(Norway)				
General specifications				
Product name	Eaton xEffect XNH device for busbar system			
Part no.	XNH00-S160-BT1			
EAN	4015081779611			
Product Length/Depth	204 millimetre			
Product height	137 millimetre			
Product width	106 millimetre			
Product weight	0.811 kilogram			
Compliances	RoHS conform			
Certifications	IEC/EN 60947-3			
Product Tradename	xEffect			
Product Type	XNH device for busbar system			
Product Sub Type	None			
Delivery program				
Туре	Basic device			
Color	Gray			
Number of poles	Three-pole			
Actuator type	Cover grip			
Technical Data - Electrical				
Voltage test	Yes, sliding inspection windows			
Voltage rating at AC	400 V (AC-23B) 500 V (AC-22B) 690 V (AC-21B)			
Voltage rating at DC	250 V DC at DC-22B 440 V DC at DC-21B			
Rated operating voltage (Ue) at AC - max	690 V			
Rated insulation voltage (Ui)	800 V AC			
Rated impulse withstand voltage (Uimp)	8 kV			
Rated uninterrupted current (Iu)	160 A			
Rated conditional short-circuit current (Iq)	120 kA			
Rated operation current (le)	160 A			
Rated operational current	160 A (AC-22B) 160 A 160 A (AC-23B) 160 A (AC-21B)			
Rated short-time withstand current (Icw)	7 kA			
Rated conditional short-circuit rating	100 kA (690 V) 120 kA (500 V)			
Conditioned rated short-circuit current Iq	120 kA			
Frequency rating	40 Hz - 60 Hz			
Frequency rating of contacts	40 Hz - 60 Hz			
Creepage resistance	CTI 600			
Power rating at AC-23, 400 V	0 kW			
Rated operation power at AC-23, 400 V	0 kW			
Permitted power loss per fuse link - max	12 W			
Electrical connection type of main circuit	Frame clamp			
Operating altitude without derating - max	2000 mm			
Overvoltage category	III			
Pollution degree	3			
Direction of incoming supply	As required (FLEX System)			

Technical Data - Mechanical Activation type Actuator position Size Mounting method	Dependent manual activation Front side
Actuator position Size	·
Size	Front side
Mounting method	NH000 / NH00 fuse
	Busbars of 60 mm
Mounting position	Vertical or horizontal
Material	Polyamide
Degree of protection	IP2XC (contact protection, XNH installed) IP10 (handle cover open, XNH installed) IP20 (operating status, XNH installed)
Degree of protection (front side)	Other
Connection type	Box terminal
Terminal capacity (copper band)	9 mm x 0.8 mm (6x) at box terminal
Terminal capacity (copper busbar)	Bolt diameter at flange connection: M8 Max. 25 mm cable lug width at flange connection 20 mm x 10 mm
Terminal capacity (copper strip)	9 mm x 0.8 mm (9x) at box terminal
Terminal capacity (stranded cable)	1.5 mm² - 50 mm² at box terminal 1.5 mm² - 95 mm² at box terminal 10 mm² - 70 mm² at clamp-type terminal
Cable entry type	Other
Locking facility	Yes, optional
Suitable for fuses	NH00
Lifespan, mechanical	1400 operations
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	160 A
Equipment heat dissipation, current-dependent	14 W
Heat dissipation per pole, current-dependent	4.7 W
Heat dissipation at 80% without fuses	9 W
Ambient operating temperature details	Ambient temperature range: -25 °C - 55 °C
Heat deflection temperature	125 °C
Design verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed. Is the panel builder's responsibility. The specifications for the switchgear must
10.13 Mechanical function	observed. The device meets the requirements, provided the information in the instruction
THE INTERCHALING INTERCALL	leaflet (IL) is observed.

Features	Halogen free Standard sealable
Flammability characteristics (UL)	Self-extinguishing (UL 94)
Special features	Permanent operation (rated operating mode) Current paths of electrolytic copper, silver-plated Cable connection optionally at the top or bottom
Suitable for	Busbar mounting

Technical data ETIM 9.0

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@ss13-27-37-14-01 [AKF058018])

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 NUMBER With error protection No No Type of electrical connection of main circuit Frame clamp Cable entry Other Equipped with connectors No Suitable for floor mounting No Suitable for front mounting No Suitable for front mounting Yes Suitable for four mounting Yes Type of control element Yes Position control element Yes Motor drive optional No Motor drive integrated No Version as emergency stop installation No	(ecl@ss13-27-37-14-01 [AKF058018])						
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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			