

**NH fuse-switch 3p flange connection M8 max. 95 mm<sup>2</sup>; busbar 60 mm;  
NH000 & NH00**

**Part no. XNH00-S160**

**183033**

**EL Number**

**1624008**

**(Norway)**

<b>General specifications</b>		
Product name		Eaton xEffect XNH device for busbar system
Part no.		XNH00-S160
EAN		4015081779604
Product Length/Depth		204 millimetre
Product height		137 millimetre
Product width		106 millimetre
Product weight		0.788 kilogram
Compliances		RoHS conform
Certifications		IEC/EN 60947-3
Product Tradename		xEffect
Product Type		XNH device for busbar system
Product Sub Type		None
<b>Delivery program</b>		
Type		Basic device
Color		Gray
Number of poles		Three-pole
Actuator type		Cover grip
<b>Technical Data - Electrical</b>		
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 (Ie)		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		120 kA (500 V) 100 kA (690 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		Screw connection
Operating altitude without derating - max		2000 mm
Overvoltage category		III
Pollution degree		3
Direction of incoming supply		As required (FLEX System)

Lifespan, electrical		300 operations
<b>Technical Data - Mechanical</b>		
Activation type		Dependent manual activation
Actuator position		Front side
Size		NH000 / NH00 fuse
Mounting method		Busbars of 60 mm
Mounting position		Vertical or horizontal
Material		Polyamide
Degree of protection		IP20 (operating status, XNH installed) IP2XC (contact protection, XNH installed) IP10 (handle cover open, XNH installed)
Degree of protection (front side)		Other
Connection type		Flat connection
Terminal capacity (copper band)		9 mm x 0.8 mm (6x) at box terminal
Terminal capacity (copper busbar)		Max. 25 mm cable lug width at flange connection 20 mm x 10 mm Bolt diameter at flange connection: M8
Terminal capacity (copper strip)		9 mm x 0.8 mm (9x) at box terminal
Terminal capacity (stranded cable)		1.5 mm <sup>2</sup> - 95 mm <sup>2</sup> at box terminal 1.5 mm <sup>2</sup> - 50 mm <sup>2</sup> at box terminal 10 mm <sup>2</sup> - 70 mm <sup>2</sup> at clamp-type terminal
Cable entry type		Other
Locking facility		Yes, optional
Suitable for fuses		NH00
Lifespan, mechanical		1400 operations
<b>Design verification as per IEC/EN 61439 - technical data</b>		
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
<b>Design verification as per IEC/EN 61439</b>		
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		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.
<b>Additional information</b>		

Features		Standard sealable Halogen free
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 8.0

Low-voltage industrial components (EG000017) / Fuse switch disconnecter (EC001040)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Fuse switch disconnecter (ecI@ss10.0.1-27-37-14-01 [AKF058013])		
Version as main switch		No
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 of poles		3
With error protection		No
Type of electrical connection of main circuit		Screw connection
Cable entry		Other
Equipped with connectors		No
Suitable for floor mounting		No
Suitable for front mounting		No
Suitable for busbar 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
Degree of protection (IP), front side		Other