DATASHEET - XNH00-FCL-A160-BT

NH fuse-switch 3p box terminal 1,5 - 95 mm²; mounting plate; light fuse monitoring; NH000 & NH00

Powering Business Worldwide

Part no.	**XNH00-FCL-A160-BT**
	183028
EL Number (Norway)	**1624003**

General specifications

Product name	Eaton xEffect XNH device for mounting plate
Part no.	XNH00-FCL-A160-BT
EAN	4015081779550
Product Length/Depth	204 millimetre
Product height	84 millimetre
Product width	106 millimetre
Product weight	0.735 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-3
Product Tradename	xEffect
Product Type	XNH device for mounting plate
Product Sub Type	None

Delivery program

Type	Fuse control - light
Color	Gray
Number of poles	Three-pole
Actuator type	Cover grip

Technical Data - Electrical

Voltage test	Yes, sliding inspection windows
Voltage rating at AC	690 V (AC-21B) 500 V (AC-22B) 400 V (AC-23B)
Voltage rating at DC	440 V DC at DC-21B 250 V DC at DC-22B
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-23B) 160 A (AC-21B) 160 A (AC-22B) 160 A
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	Frame clamp
Operating altitude without derating - max	2000 mm
Overvoltage category	III
Pollution degree	3
Direction of incoming supply	As required

Lifespan, electrical	300 operations
Technical Data - Mechanical	
Activation type	Dependent manual activation
Actuator position	Front side
Size	NH000 / NH00 fuse
Mounting method	DIN rail Mounting plate
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	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)	10 mm^2 - 70 mm^2 at clamp-type terminal 1.5 mm^2 - 50 mm^2 at box terminal 1.5 mm^2 - 95 mm^2 at box 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	9 W
Heat dissipation per pole, current-dependent	3 W
Heat dissipation at 80% without fuses	5.8 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	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.

Additional information

Features			Halogen free Standard sealable
Fitted with:			Error protection
Flammability characteristics (UL)			Self-extinguishing (UL 94)
Special features			With optical signalling of triggered fuse-links Current paths of electrolytic copper, silver-plated Permanent operation (rated operating mode)
Suitable for			Ground 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 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			Yes
Type of electrical connection of main circuit			Frame clamp
Cable entry			Other
Equipped with connectors			No
Suitable for floor mounting			Yes
Suitable for front mounting			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			No
Degree of protection (IP), front side			Other

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