NH fuse-switch 1p flange connection M10 max. 150 $\mathrm{mm^2}$; mounting plate; NH1



Part no. XNH1-1-A250

eneral specifications	
Product name	Eaton xEffect XNH device for mounting plate
Part no.	XNH1-1-A250
EAN	4015081779765
Product Length/Depth	306 millimetre
Product height	117 millimetre
Product width	69 millimetre
Product weight	0.996 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-3
Product Tradename	xEffect
Product Type	XNH device for mounting plate
Product Sub Type	None
elivery program	
Туре	Basic device
Color	Gray
Number of poles	Single-pole
Actuator type	Cover grip
echnical 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-22B) 440 V (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)	250 A
Rated conditional short-circuit current (Iq)	120 kA
Rated operation current (le)	250 A
Rated operational current	250 A (AC-23B) 250 A (AC-22B) 250 A (AC-21B) 250 A (DC-21B) 250 A (DC-22B)
Rated short-time withstand current (Icw)	6 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	23 W
Electrical connection type of main circuit	Screw connection
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Operating altitude without derating - max Overvoltage category	2000 mm

Direction of incoming supply	As required
Lifespan, electrical	200 operations
Technical Data - Mechanical	
Activation type	Dependent manual activation
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Actuator position Size	Front side NH1 fuse
Mounting method	Mounting plate
Mounting method	DIN rail
Mounting position	Vertical or horizontal
Material	Polyamide
Degree of protection	IP20 (operating status, XNH installed) IP10 (handle cover open, XNH installed) IP2XC (contact protection, XNH installed)
Degree of protection (front side)	Other
Connection type	Flat connection
Terminal capacity (copper band)	6 mm x 16 mm x 0.8 mm (6x) at box terminal
Terminal capacity (copper busbar)	Max. 37 mm cable lug width at flange connection Bolt diameter at flange connection: M10 30 mm x 10 mm
Terminal capacity (copper strip)	16 mm x 0.8 mm (10x) at box terminal
Terminal capacity (stranded cable)	70 mm² - 95 mm² (2x) at double clamp-type terminal 10 mm² -150 mm² at clamp-type terminal 35 mm² - 150 mm² at box terminal 25 mm² - 150 mm² at box terminal
Cable entry type	Other
Locking facility	Yes, optional
Suitable for fuses	NH1
Lifespan, mechanical	1400 operations
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	250 A
Equipment heat dissipation, current-dependent	16 W
Heat dissipation per pole, current-dependent	5.3 W
Heat dissipation at 80% without fuses	14.1 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	
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
10.11 Short-circuit rating	provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must be
10.12 Electromagnetic compatibility	observed. Is the panel builder's responsibility. The specifications for the switchgear must b

10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Additional information	
Features	Standard sealable Halogen free
Flammability characteristics (UL)	Self-extinguishing (UL 94)
Special features	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])

(eci@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 lu	Α	250
Rated operation power at AC-23, 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	120
Rated short-time withstand current lcw	kA	6
Suitable for fuses		NH1
Number of poles		1
With error protection		No
Type of electrical connection of main circuit		Screw connection
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







