DATASHEET - XNH1-1-A250-BT



NH fuse-switch 1p box terminal 35 - 150 mm²; mounting plate; NH1

Part no. XNH1-1-A250-BT

Catalog No. 183050

EL-Nummer (Norway) 1624025



Technical data

Activation

Electrical			
Electrical Standards			IEC/EN 60947-3
Rated operational voltage	U _e	V AC	690
Rated operational voltage	U _e	V DC	440
Rated operational current	I _e	A	250
Rated frequency	f	Hz	40 - 60
Rated insulation voltage	Ui	V AC	800
Total heat dissipation at I _{th} (without fuses)	P_{v}	W	22
Heat dissipation at 80% (without fuses)	P_{v}	W	14.1
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	250
Utilization category AC22B			
Rated operating voltage	U _e	V AC	500
Rated operating current	I _e	Α	250
Utilization category AC-21B			
Rated operating voltage	U _e	V AC	690
Rated operating current	l _e	А	250
Utilization category DC-22B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	l _e	Α	DC values on request
Utilization category DC21B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	l _e	Α	DC values on request
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)
Rated short-time withstand current	I _{cw}	kA	10
Max. fuse			
Size according to DIN VDE 0636-2			1
Max. permitted power loss per fuse link	P_{v}	W	23
Lifespan, electrical	Operations		200
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

Dependent manual activation

			War and the same
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			M10
Cable lug max. width		mm	37
Flat busbar		mm	30 x 10
Box terminal			
Stranded		mm ²	35 - 150 Cu/Al
Copper strip	Number of segments x width x thickness	mm	10 x 16 x 0,8
Box terminal			
Stranded		mm ²	25 - 150 Cu
Copper band	Number of segments x width x thickness	mm	6 x 16 x 0,8
Clamp-type terminal			
1-hole		mm^2	10 - 150 Cu/Al
Double clamp-type terminal			
Stranded		mm ²	2x (70 - 95) Cu/Al

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	250
Heat dissipation per pole, current-dependent	P _{vid}	W	5.3
Equipment heat dissipation, current-dependent	P _{vid}	W	16
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

Degree of protection (IP), front side

Technical data ETIM 6.0				
Low-voltage industrial components (EG000017) / Fuse switch disconnector (EC00104	10)			
Electric engineering, automation, process control engineering / Low-voltage switch (ecl@ss8.1-27-37-14-01 [AKF058010])	technology / Off-load	switch, circuit breaker, control switch / Fuse switch disconnector		
Version as main switch		No		
Version as safety switch		No		
Max. rated operation voltage Ue AC	V	690		
Rated permanent current lu	А	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		Frame clamp		
Suitable for ground mounting		Yes		
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		No		

Other

Dimensions



