DATASHEET - XNH2-FCE-S400-BT



NH fuse-switch 3p box terminal 95 - 300 $\mathrm{mm^2}$; busbar 60 mm; electronic fuse monitoring; NH2



Part no. XNH2-FCE-S400-BT

Catalog No. 183070

EL-Nummer (Norway) 1624045

Delivery program

		Fuse control - electronic
		3 pole
		Busbars of 60 mm
		2
		Box terminal
l _e	Α	400
		IP20 (Operating status) IP2XC (Contact protection) IP10 (Handle cover open)
U _e	V AC	690
U _e	V DC	440
	kA	120 (500 V) 100 (690 V)
		Self-extinguishing as per UL 94
		Current paths of electrolytic copper, silver-plated With electronic monitoring of fuse-links
	U _e	U _e VAC

Technical data

Flectrica

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	l _e	Α	400
Rated frequency	f	Hz	40 - 60
Rated insulation voltage	Ui	V AC	800
Total heat dissipation at I _{th} (without fuses)	P_{ν}	W	36
Heat dissipation at 80% (without fuses)	P_{ν}	W	22.9
Rated impulse withstand voltage	U_{imp}	kV	8
Utilization category AC-23B			
Rated operating voltage	U _e	V AC	400
Rated operating current	I _e	Α	400
Utilization category AC22B			
Rated operating voltage	U _e	V AC	500
Rated operating current	I _e	Α	400
Utilization category AC-21B			
Rated operating voltage	U _e	V AC	690
Rated operating current	I _e	Α	400
Utilization category DC-22B			
Rated operating voltage	U _e	V DC	DC values on request
Rated operating current	I _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			2
Max. permitted power loss per fuse link	P_{v}	W	34
Lifespan, electrical	Operations	••	200
Mechanical	Operations		200
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
Activation			Dependent manual activation
Mounting position			Vertical, horizontal
Altitude		m	Max. 2000
Overvoltage category/pollution degree			III/3
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)			Yes
Direction of incoming supply			as required (FLEX System)
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		800
Track resistance		0.0	CTI 600
Heat deflection temperature Terminal capacity		°C	125
Flange connection			
Bolt diameter			M10
Cable lug max. width		mm	48
Flat busbar		mm	40 x 10
Box terminal			
Stranded		mm ²	95 - 300 Cu/Al
Copper strip	Number of segments x width x thickness	mm	6 x 16 x 0,8 - 10 x 32 x 1
Box terminal			
Stranded		mm^2	25 - 240 Cu
Copper band	Number of segments x width x thickness	mm	10 x 16 x 0,8
Clamp-type terminal			
Stranded		mm ²	120 - 240 Cu/Al
Double clamp-type terminal			
Stranded		mm ²	2x (120 - 150) Cu/Al
Electronic fuse monitoring			
Power supply			Self-supplied
Power consumption		VA	1.5
Overvoltage category			230/400V : III 500V : II
Frequency range			50 - 60
Input resistance			>1
Voltage inputs		V AC	400 - 500 (+/-10%)
Temperature range		°C	-5 - +55
Operation indicator			1 LED green

Failure indicator		3 LEDs (F1, F2, F3) red
Degree of protection		IP3X
Function test		Test button for relay + LEDs
EMC (Electromagnetic compatibility)		IEC 61000-4-4 IEC 61000-4-5
Fuse links		NH with live handle straps
Outputs		
Relay output		1 NC 1 NO
Max. voltage	V AC	250
Max. voltage	V DC	24
Max. switching current	Α	1
Contact sequence		11 12 13 11 29 29 11 12 13 12
Function diagram		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	400
Heat dissipation per pole, current-dependent	P _{vid}	W	7.3
Equipment heat dissipation, current-dependent	P _{vid}	W	22
IEC/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.

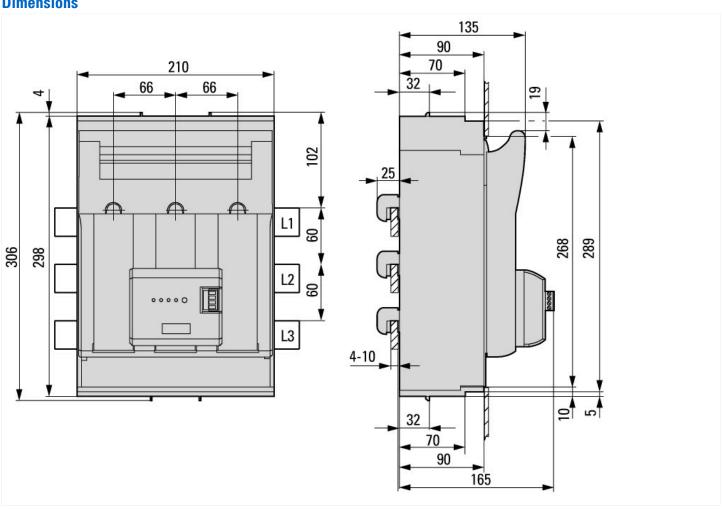
Technical data ETIM 7.0

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@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		500
Rated permanent current lu	А		400
Rated operation power at AC-23, 400 V	kV	W	0
Conditioned rated short-circuit current Iq	k.A	A	120
Rated short-time withstand current lcw	k.A	A	3
Suitable for fuses			NH2
Number of poles			3
With error protection			Yes
Type of electrical connection of main circuit			Frame clamp
Cable entry			Other
Equipped with connectors			Yes
Suitable for ground mounting			No
Suitable for front mounting 4-hole			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

Dimensions



Additional product information (links)

Additional product information (links)				
IL0131112ZU Fuse switch-disconnector XNH				
IL0131112ZU Fuse switch-disconnector XNH	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL0131112ZU2017_02.pdf			
IL0131114ZU Fuse switch-disconnector XNH				
IL0131114ZU Fuse switch-disconnector XNH	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL0131114ZU2015_11.pdf			