DATASHEET - XNH00-FCE-S160



NH fuse-switch 3p flange connection M8 max. 95 mm²; busbar 60 mm; electronic fuse monitoring; NH000 & NH00



XNH00-FCE-S160 183039

EL-Nummer (Norway)

Part no.

Catalog No.

1624014

Delivery program

Basic function			Fuse control - electronic
Number of poles			3 pole
Mounting type			Busbars of 60 mm
Size			00
Type of connection			Flat connection
Rated operational current	le	А	160
Front degree of protection (XNH installed)			IP20 (Operating status) IP2XC (Contact protection) IP10 (Handle cover open)
Rated operational voltage	Ue	V AC	690
Rated operational voltage	U _e	V DC	440
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)
Flammability characteristics			Self-extinguishing as per UL 94
Description			Current paths of electrolytic copper, silver-plated Cable connection optionally at the top or bottom With electronic monitoring of fuse-links

Technical data

Electrical			
Standards			IEC/EN 60947-3
Rated operational voltage	Ue	V AC	690
Rated operational voltage	Ue	V DC	440
Rated operational current	le	А	160
Rated frequency	f	Hz	40 - 60
Rated insulation voltage	Ui	V AC	800
Total heat dissipation at I_{th} (without fuses)	Pv	W	14
Heat dissipation at 80% (without fuses)	Pv	W	9
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	А	160
Utilization category AC22B			
Rated operating voltage	U _e	V AC	500
Rated operating current	l _e	А	160
Utilization category AC-21B			
Rated operating voltage	Ue	V AC	690
Rated operating current	l _e	А	160
Utilization category DC-22B			
Rated operating voltage	U _e	V DC	250
Rated operating current	l _e	А	160
Utilization category DC21B			
Rated operating voltage	U _e	V DC	440
Rated operating current	l _e	А	160
Rated conditional short-circuit current		kA	120 (500 V) 100 (690 V)

Rated short-time withstand current	I _{cw}	kA	7
Max. fuse	·CW		
Size according to DIN VDE 0636-2			000 / 00
Max. permitted power loss per fuse link	Pv	W	12
		vv	
Lifespan, electrical Mechanical	Operations		300
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			111/3
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) $% \left(\mathcal{L}^{2}\right) =\left(\mathcal{L}^{2}\right) \left(\mathcal{L}^{$			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		1400
Track resistance			CTI 600
Heat deflection temperature		°C	125
Terminal capacity			
Flange connection			
Bolt diameter			M8
Cable lug max. width		mm	25
Flat busbar		mm	20 x 10
Box terminal			
Stranded		mm ²	1,5 - 95 Cu
Copper strip	Number of segments x width x thickness	mm	9 x 9 x 0,8
Box terminal			
Stranded		mm ²	1,5 - 50 Cu
Copper band	Number of segments x width x thickness	mm	6 x 9 x 0,8
Clamp-type terminal			
Stranded		mm ²	10 - 70 Cu/Al
Stranded Double clamp-type terminal		mm ²	10 - 70 Cu/Al
			10 - 70 Cu/Al
Double clamp-type terminal Stranded		mm ²	10 - 70 Cu/Al -
Double clamp-type terminal			10 - 70 Cu/Al - Self-supplied
Double clamp-type terminal Stranded Electronic fuse monitoring			-
Double clamp-type terminal Stranded Electronic fuse monitoring Power supply		mm ²	- Self-supplied
Double clamp-type terminal Stranded Electronic fuse monitoring Power supply Power consumption Overvoltage category		mm ²	- Self-supplied 1.5 230/400V : III 500V : II
Double clamp-type terminal Stranded Electronic fuse monitoring Power supply Power consumption Overvoltage category Frequency range		mm ² VA	- Self-supplied 1.5 230/400V : III 500V : III 500 - 60
Double clamp-type terminal Stranded Electronic fuse monitoring Power supply Power consumption Overvoltage category Frequency range Input resistance		vA k0hm/V	- Self-supplied 1.5 230/400V : III 500V : II 50 - 60 > 1
Double clamp-type terminal Stranded Electronic fuse monitoring Power supply Power consumption Overvoltage category Frequency range		mm ² VA	- Self-supplied 1.5 230/400V : III 500V : II 50 - 60

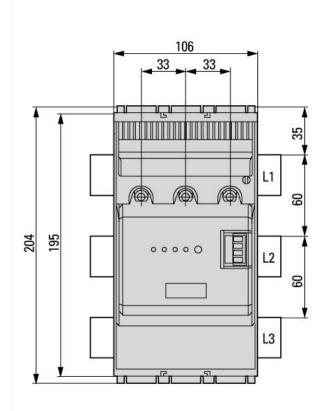
Operation indicator		1 LED green
Failure indicator		3 LEDs (F1, F2, F3) red
Degree of protection		IP3X
Function test		Test button for relay + LEDs
EMC (Electromagnetic compatibility)		IEC 61000-4-4 IEC 61000-4-5
Fuse links		NH with live handle straps
Outputs		
Relay output		1 NC 1 NO
Max. voltage	V AC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

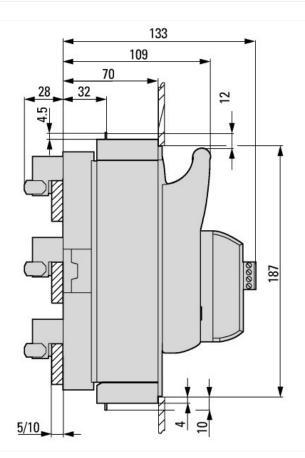
Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	160
Heat dissipation per pole, current-dependent	P _{vid}	W	4.7
Equipment heat dissipation, current-dependent	P _{vid}	W	14
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 b observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must b 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 (EC00104	10)		
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	160	
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	7	
Suitable for fuses		NH00	
Number of poles		3	
With error protection		Yes	
Type of electrical connection of main circuit		Screw connection	
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)

IL0131111ZU Fuse switch-disconnector XNH

IL0131111ZU Fuse switch-disconnector XNH

IL0131114ZU Fuse switch-disconnector XNH

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL0131111ZU2016_01.pdf

IL0131114ZU Fuse switch-disconnector XNH https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL0131114ZU2015_11.pdf