DATASHEET - XNH2-S400



NH fuse-switch 3p flange connection M10 max. 240 $\rm mm^2$; busbar 60 mm; NH2



Part no. Catalog No.

XNH2-S400 183065

EL-Nummer (Norway) 1624040

Delivery program

Basic function			Basic device
Number of poles			3 pole
Mounting type			Busbars of 60 mm
Size			2
Type of connection			Flat connection
Rated operational current	le	А	400
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	Ue	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
Successor to			107252 107253 284648

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	400
Rated frequency	f	Hz	40 - 60
Rated insulation voltage	Ui	V AC	800
Total heat dissipation at I_{th} (without fuses)	Pv	W	36
Heat dissipation at 80% (without fuses)	Pv	W	22.9
Rated impulse withstand voltage	U _{imp}	kV	8
Utilization category AC-23B			
Rated operating voltage	Ue	V AC	400
Rated operating current	l _e	А	400
Utilization category AC22B			
Rated operating voltage	Ue	V AC	500
Rated operating current	l _e	А	400
Utilization category AC-21B			
Rated operating voltage	Ue	V AC	690
Rated operating current	l _e	А	400
Utilization category DC-22B			
Rated operating voltage	U _e	V DC	440
Rated operating current	l _e	Α	400
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 V/DE 0626 2			2
Size according to DIN VDE 0636-2	D	W	
Max. permitted power loss per fuse link	Pv	vv	34
Lifespan, electrical 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			111/3
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) $\label{eq:council}$			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			CTI 600
Heat deflection temperature		°C	125
Terminal capacity			
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

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	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 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 (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]) No Version as main switch Version as safety switch No Max. rated operation voltage Ue AC ۷ 690 Rated permanent current lu А 400 Rated operation power at AC-23, 400 V kW 0 kA 120 Conditioned rated short-circuit current Iq kA 3 Rated short-time withstand current lcw NH2 Suitable for fuses 3 Number of poles With error protection No Type of electrical connection of main circuit Screw connection Cable entry Other Equipped with connectors No 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 No Motor drive optional No Motor drive integrated Version as emergency stop installation No Degree of protection (IP), front side Other

Dimensions

