



Low-voltage h.b.c fuse switch strip, 250A, 500V/250A, 690V/200A, size 1

Part no. NH-SLS-1/250-SI
Article no. 106217

Delivery program

Product range			185 mm system
Basic function			Busbar fuse material
Subrange			Low-voltage h.b.c. switch-fuse units
Description			With fuse monitoring With connection area cover Screw fixing on busbar with drilled holes Mounting without holes with spike-type terminal (bottom: 106224, top: 106225)
Information about equipment supplied			Without claw-terminals with screws M10
Interval between busbar centres		mm	185
Rated operational current	I_e	A	250
Max. fuse			
400 V		A	250
690 V		A	250
Frame size			1
For use with			30 x 10 40 x 10 50 x 10 60 x 10 80 x 10 100 x 10 120 x 10
For use with			Double T profile Triple T profile
Connection			top or bottom

Technical data

General

Standards			IEC/EN 60255, VDE 0435 part 303
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature			-5 - +40
Altitude		m	max. 2000 m
Interval between busbar centres		mm	185
Number of poles/phases		n	3
Mounting position			Vertical, horizontal
Overvoltage category/pollution degree			III/3
Protection type			IP30 (Operating state) IP10 (Front cover open)
Degree of Protection			IP30
Direction of incoming supply			as required
Lifespan, mechanical	Operations		100000000
Weight		kg	5.2

Contacts

Rated operational voltage	U_e	V	3 x 400 AC
Voltage range		V AC	$U_e \times 0.8 - 1.1$
Rated frequency	f	Hz	50 - 60
Own power consumption per phase (rung)		VA	≤ 2 (L2/L3)
Rated insulation voltage	U_i	V	400
Rated operating mode			continuous operation
Rated impulse withstand voltage	U_{imp}	kV	4
Rated voltage	U_e	V AC	250
Interval between busbar centres		mm	185
Overvoltage category/pollution degree			III/3
Rated operational current	I_e	A	250
690 V		A	250
Rated conditional short-circuit current AC	I_q	kA _{eff}	100
Utilization category AC22B			
Rated operating voltage	U_e	V AC	690
Rated operating current	I_e	A	250
Utilization category AC-23B			
Rated operating voltage	U_e	V AC	500
Rated operating current	I_e	A	250
Utilization category AC-21B			
Rated operating voltage	U_e	V AC	690
Rated operating current	I_e	A	250
Electrical		Operations	≤ 150000
Heat dissipation at I_{th} AC, without NH-SE		W	30

Electrical data

Number of poles			3 pole
Number of poles			3
Rated operational voltage	U_e	V	
Rated operating voltage	U_e	V AC	400
Rated frequency	f	Hz	50 - 60
Rated operational current	I_e	A	250
Conventional thermal current	I_{th}	A	250
Control mode			Uninterrupted operation
Overvoltage category			III
Utilization category			AC 15
Rated impulse withstand voltage	U_{imp}	kV	4
Power loss			
Fuse		W	30 W at 250 A

Relay contacts

Standards			EN 60947-5-1
Rated voltage	U_e	V AC	250

Conventional thermal current	I_{th}	A	4
AC-15			
Rated operational voltage	U_e	V AC	230
Rated operational current			
AC-15 with 230 V	I_e	A	1
Electrical		Operations	150000
Lifespan, mechanical	Operations		100000000
Max. admissible back-up fuse		A gL	4

Max. fuse

Frame size			1
Max. rated operational current gL/gG		A	250
Max. admissible heat dissipation NH-SE	P_v	W	23

Terminal capacity

Box terminal			
Solid		mm ²	2 x 2.5
Flange connection			
Diameter	d	mm	M12
Stranded with cable lug		mm ²	1 x 120
Flat busbar	max.	mm	30 x 10
Clamp-type terminal			
Stranded		mm ²	50 - 185
Double clamp-type terminal			
Stranded		mm ²	70 - 240
Stranded		mm ²	50 - 185
Sector conductor, stranded		mm ²	70 - 240
Section conductor, solid		mm ²	95 - 300
Termination expansion			
Cable lugs		n	Max. 2
Pick-up/drop-out time		ms	< 500

Mechanical variables

Mounting on busbars			
Screw connection for busbars			M12 ... x 5/10
Terminals			Lift terminals
Lifespan, mechanical	Operations		100000000
Overvoltage category/pollution degree			III/3

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-5
Operating ambient temperature max.		°C	40

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / In-line fuse base (EC001046)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Fuse strip (ecl@ss8.1-27-37-14-02 [AKF059010])			
Model			Fuse switch disconnecter
Double interrupting			No
Rated permanent current I _u		A	250
Distance between rail centre, 40 mm			No
Distance between rail centre, 50 mm			No
Distance between rail centre, 60 mm			No
Distance between rail centre, 100 mm			No
Distance between rail centre, 185 mm			Yes

Max. rated operation voltage Ue AC	V	690
Conditioned rated short-circuit current Iq	kA	100
Type of electrical connection of main circuit		Rail connection
Number of poles		3
Construction size fuse insert		NH1

Dimensions

