



LVS00100SP

NH-Fuse switch vertical design LV NH00 100mm 3pole M8

Technical properties

Architecture

Number of poles	3 P
Type of pole	3 P

Main electrical features

Rated operational voltage Ue	690 V
Frequency	50/60 Hz

Voltage

Rated insulation voltage	1000 V
Rated impulse withstand voltage	8 kV

Electric current

Cut off current	100 kA
Rated current for Ue=500V AC according to IEC 61439-1 5.3.2	160 A
Rated current for Ue=690V AC according to IEC 61439-1 5.3.2	160 A
Rated current	160 A
Rated short-time withstand current 1s	5 kA
Rated conditional short-circuit current for Ue=400V IEC 61439-1 3.8.10.4	100 kA
Rated conditional short-circuit current for Ue=690V IEC 61439-1 3.8.10.4	100 kA
Fuse-links test rated cond. short-circuit current Ue=400V IEC 61439-1 3.8.10.4	160 A
Fuse-links test rated cond. short-circuit current Ue=500V IEC 61439-1 3.8.10.4	160 A
Fuse-links test rated cond. short-circuit current Ue=690V IEC 61439-1 3.8.10.4	160 A
Conventional free air thermal current with Trennmesser and std. cross section	220 A
Conv. free air therm.current w/fuse-links and std.cross sect. IEC60947-1 4.3.2.1	160 A
Rated conditional short-circuit current for Ue=500V IEC 61439-1 3.8.10.4	100 kA

Electric current / temperature

Rating current 40°C	160 A
Rating current 45°C	152 A
Rating current 50°C	144 A
Rating current 55°C	136 A
Rating current 60°C	128 A

Rating current 65°C	120 A
Rating current 70°C	112 A
Fuse	
Fuse Size	NH00
Dimensions	
Height of installed product	123 mm
Length	401 mm
Width of installed product	50 mm
Busbar distance	100 mm
Power	
Total power loss under IN	20 W
Loss power at full load	56 W
Maximum Power loss of the Fuse-Link installed in device	12 W
Dissipated energy in cable	36.46 W
Endurance	
Electric endurance in number of cycles	200
Number of mechanical operations	1400
Total service life (mechanical and electrical endurance) IEC 60947-3 Table 4	1600
Materials	
Copper weight of the product	645 g
Silver weight of the product	1.45 kg
Installation, mounting	
Tightening torque	14Nm
Torque at mounting on busbar	14 Nm
Connection	
Connection cross-sect. flexible conductor	4 - 95mm ²
Connection cross-sect. rigid cable	4 / 95mm ²
Type of connection	Screw connection
Standards	
Rated duties according to IEC 60947-1 4.3.4	Continuous operation
Operation of switching devices according to IEC 60947-1 2.4	depending manual operation (of a mechanical switching device)
Utilisation category for Ue=400V AC according to IEC 60947-3 Table 5	AC-23B
Utilisation category for Ue=500V AC according to IEC 60947-3 Table 5	AC-22B
Utilisation category for Ue=690V AC according to IEC 60947-3 Table 5	AC-22B
Standard cross section according to IEC 60947-1 Tables 9 and 10	70 mm ²
Safety	
REACH conform	Yes

Subject to technical modifications

RoHS conform	Yes
Halogen free	Yes
Use conditions	
Operating temperature	-25...55 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Storage/transport temperature	-40...70 °C