



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
<b>Fuse</b>	
Fuse Size	NH00
<b>Dimensions</b>	
Height of installed product	123 mm
Length	401 mm
Width of installed product	50 mm
Busbar distance	100 mm
<b>Power</b>	
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
<b>Endurance</b>	
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
<b>Materials</b>	
Copper weight of the product	645 g
Silver weight of the product	1.45 kg
Material	Plastic/metal
<b>Installation, mounting</b>	
Tightening torque	14Nm
Torque at mounting on busbar	14 Nm
<b>Connection</b>	
Connection cross-sect. flexible conductor	4 - 95mm <sup>2</sup>
Connection cross-sect. rigid cable	4 / 95mm <sup>2</sup>
Type of connection	Screw connection
<b>Standards</b>	
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
European directive WEEE	concerned
Standard cross section according to IEC 60947-1 Tables 9 and 10	70 mm <sup>2</sup>

**Safety**

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Protection index IP	IP2X
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**Use conditions**

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Operating temperature	-25...55 °C
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Degree of pollution according to IEC 60664 / IEC 60947-2	3
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Storage/transport temperature	-40...70 °C
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