



LVSG00SP

NH Fuse-Switch vertical design LV size 00 185mm 3pole M8

Technical properties

Architecture

Number of poles	3 P
-----------------	-----

Configuration

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

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	120 kA
Rated current for Ue=400V AC according to IEC 61439-1 5.3.2	160 A
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	120 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 current for Ue=800V AC according to IEC 61439-1 5.3.2	80 A

Fuse-links test rated cond. short-circuit current Ue=800V IEC 61439-1 3.8.10.4	80 A
--	------

Rated conditional short-circuit current for Ue=500V IEC 61439-1 3.8.10.4	120 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

Depth of installed product	177 mm
Height of installed product	672 mm
Length	672 mm
Width of installed product	50 mm
Busbar distance	185 mm

Power

Total power loss under IN	22 W
Loss power at full load	58 W
Maximum Power loss of the Fuse-Link installed in device	12 W
Dissipated energy in cable	38.46 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	800 g
Silver weight of the product	1.37 g

Installation, mounting

Tightening torque	14Nm
Torque at mounting on busbar	14 Nm

Connection

Connection cross-sect. flexible conductor	2,5 / 95mm ²
Connection cross-sect. rigid cable	2,5 / 95mm ²
Type of connection	screw

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
RoHS conform	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