



LT0059

NH fuse-switch, horizontal design LT size 000 mounting plate direct connection

Technical properties

Architecture

Type of product	With safety switch disconnecter
Number of poles	3 P

Main electrical features

Rated operational voltage Ue	0 / 690 V
Frequency	50/60 Hz

Voltage

Rated insulation voltage	1000 V
Rated impulse withstand voltage	6000 V

Electric current

Rated current for Ue=400V AC according to IEC 61439-1 5.3.2	100 A
Rated current for Ue=500V AC according to IEC 61439-1 5.3.2	100 A
Rated current for Ue=690V AC according to IEC 61439-1 5.3.2	100 A
Rated current	100 A
Rating current of fuse cartridge	2 / 4 / 6 / 10 / 16 / 20 / 25 / 32 / 35 / 40 / 50 / 63 / 80 / 100 A
Rated short-time withstand current 1s	1.2 kA
Rated conditional short-circuit current for Ue=400V IEC 61439-1 3.8.10.4	80 kA
Rated conditional short-circuit current for Ue=690V IEC 61439-1 3.8.10.4	80 kA
Fuse-links test rated cond. short-circuit current Ue=400V IEC 61439-1 3.8.10.4	100 A
Fuse-links test rated cond. short-circuit current Ue=500V IEC 61439-1 3.8.10.4	100 A
Fuse-links test rated cond. short-circuit current Ue=690V IEC 61439-1 3.8.10.4	100 A
Conventional free air thermal current with Trennmesser and std. cross section	160 A
Conv. free air therm.current w/fuse-links and std.cross sect. IEC60947-1 4.3.2.1	100 A
Acceptable current rating with AC22 category B	100 A
Rated conditional short-circuit current for Ue=500V IEC 61439-1 3.8.10.4	80 kA
Rated current for Ue=220V DC according to IEC 61439-1 5.3.2	100 A
Rated current for Ue=250V DC according to IEC 61439-1 5.3.2	100 A

Electric current / temperature

Rating current 40°C	100 A
Rating current 45°C	95 A
Rating current 50°C	90 A
Rating current 55°C	85 A
Rating current 60°C	80 A
Rating current 65°C	75 A
Rating current 70°C	70 A

Fuse

CharactFuse	gG ; gL ; aM ; aR ; gR ; gF ; gRB ; URB ; URD
Fuse Size	NH000

Dimensions

Depth of installed product	82 mm
Height of installed product	216 mm
Length	82 mm
Width of installed product	53 mm

Power

Total power loss under IN	10 W
Loss power at full load	32 W
Dissipated energy in cable	30 W

Endurance

Electric endurance in number of cycles	300
Number of mechanical operations	1700
Total service life (mechanical and electrical endurance) IEC 60947-3 Table 4	2000

Materials

Copper weight of the product	117 g
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Installation, mounting

Tightening torque	4,5Nm
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Connection

Connection cross-sect. flexible conductor	2,5 / 50mm ²
Connection cross-sect. rigid cable	2,5 / 50mm ²
Input connection type	Cage terminals with screw
Terminal type of the outputs	Cage terminals with 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-21B
European directive WEEE	concerned
Standard cross section according to IEC 60947-1 Tables 9 and 10	35 mm ²
Utilisation category for Ue=220V DC according to IEC 60947-3 Table 5	DC-22B
Utilisation category for Ue=250V DC according to IEC 60947-3 Table 5	DC-22B
Utilisation category for Ue=440V DC according to IEC 60947-3 Table 5	DC-22B

Safety

Protection index IP	IP3X
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Use conditions

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

temperatur

Max. temperature connected above with Fuse-Links IEC 60947-1 Tab 2	56 K
Max. temperature connected above with Solid-links IEC 60947-1 Table 2	70 K