



LT253

Fuse switch disconnecter LT size 2/60mm, 400A, screw terminal M10

Technical properties

Architecture

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

Main electrical features

Rated operational voltage U _e	0 / 690 V
Frequency	50-60 Hz

Voltage

Rated insulation voltage	1000 V
Rated impulse withstand voltage	8 kV

Electric current

Rated current for U _e =400V AC according to IEC 61439-1 5.3.2	400 A
Rated current for U _e =500V AC according to IEC 61439-1 5.3.2	400 A
Rated current for U _e =690V AC according to IEC 61439-1 5.3.2	400 A
Rated current	400 A
Rating current of fuse cartridge	25 / 32 / 35 / 40 / 50 / 63 / 80 / 100 / 125 / 160 / 200 / 224 / 250 / 315 / 355 / 400 A
Rated short-time withstand current 1s	15.2 kA
Rated conditional short-circuit current for U _e =400V IEC 61439-1 3.8.10.4	80 kA
Rated conditional short-circuit current for U _e =690V IEC 61439-1 3.8.10.4	80 kA
Fuse-links test rated cond. short-circuit current U _e =400V IEC 61439-1 3.8.10.4	400 A
Fuse-links test rated cond. short-circuit current U _e =500V IEC 61439-1 3.8.10.4	400 A
Fuse-links test rated cond. short-circuit current U _e =690V IEC 61439-1 3.8.10.4	400 A
Conventional free air thermal current with Trennmesser and std. cross section	590 A
Conv. free air therm.current w/fuse-links and std.cross sect. IEC60947-1 4.3.2.1	400 A
Acceptable current rating with AC22 category B	400 A
Rated conditional short-circuit current for U _e =500V IEC 61439-1 3.8.10.4	80 kA
Rated current for U _e =250V DC according to IEC 61439-1 5.3.2	400 A
Rated current for U _e =440V DC according to IEC 61439-1 5.3.2	400 A

Electric current / temperature

Rating current 40°C	400 A
Rating current 45°C	380 A
Rating current 50°C	360 A
Rating current 55°C	340 A
Rating current 60°C	320 A
Rating current 65°C	300 A
Rating current 70°C	280 A

Fuse

CharactFuse	gG ; gL ; aM ; aR ; gR ; gF ; gRB ; URB ; URD
Fuse Size	NH2

Dimensions

Depth of installed product	130 mm
Height of installed product	306 mm
Length	151 mm
Width of installed product	210 mm

Power

Total power loss under IN	37 W
Loss power at full load	139 W
Maximum Power loss of the Fuse-Link installed in device	34 W
Dissipated energy in cable	67 W

Endurance

Electric endurance in number of cycles	200
Number of mechanical operations	800
Total service life (mechanical and electrical endurance) IEC 60947-3 Table 4	1000

Materials

Copper weight of the product	1213 g
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Installation, mounting

Tightening torque	20
Torque at mounting on busbar	8 Nm

Connection

Connection cross-sect. flexible conductor	70 / 300mm ²
Connection cross-sect. rigid cable	70 / 300mm ²
Input connection type	Busbar 60 mm
Terminal type of the outputs	Connexion 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-23B
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	240 mm ²
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-21B

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	64.5 K
Max. temperature connected above with Solid-links IEC 60947-1 Table 2	65 K