



LT153

**Fuse switch disconnecter LT size 1/60mm, 250A, 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 <sub>e</sub>	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 <sub>e</sub> =400V AC according to IEC 61439-1 5.3.2	250 A
Rated current for U <sub>e</sub> =500V AC according to IEC 61439-1 5.3.2	250 A
Rated current for U <sub>e</sub> =690V AC according to IEC 61439-1 5.3.2	250 A
Rated current	250 A
Rating current of fuse cartridge	2 / 4 / 6 / 10 / 16 / 20 / 25 / 32 / 35 / 40 / 50 / 63 / 80 / 100 / 125 / 160 / 200 / 224 / 250 A
Rated short-time withstand current 1s	8.6 kA
Rated conditional short-circuit current for U <sub>e</sub> =400V IEC 61439-1 3.8.10.4	80 kA
Rated conditional short-circuit current for U <sub>e</sub> =690V IEC 61439-1 3.8.10.4	80 kA
Fuse-links test rated cond. short-circuit current U <sub>e</sub> =400V IEC 61439-1 3.8.10.4	250 A
Fuse-links test rated cond. short-circuit current U <sub>e</sub> =500V IEC 61439-1 3.8.10.4	250 A
Fuse-links test rated cond. short-circuit current U <sub>e</sub> =690V IEC 61439-1 3.8.10.4	250 A
Conventional free air thermal current with Trennmesser and std. cross section	365 A
Conv. free air therm.current w/fuse-links and std.cross sect. IEC60947-1 4.3.2.1	250 A
Acceptable current rating with AC22 category B	250 A
Rated conditional short-circuit current for U <sub>e</sub> =500V IEC 61439-1 3.8.10.4	80 kA
Rated current for U <sub>e</sub> =250V DC according to IEC 61439-1 5.3.2	250 A
Rated current for U <sub>e</sub> =440V DC according to IEC 61439-1 5.3.2	250 A

**Electric current / temperature**

Rating current 40°C	250 A
Rating current 45°C	237.5 A
Rating current 50°C	225 A
Rating current 55°C	212.5 A
Rating current 60°C	200 A
Rating current 65°C	187.5 A
Rating current 70°C	175 A

**Fuse**

CharactFuse	gG ; gL ; aM ; aR ; gR ; gF ; gRB ; URB ; URD
Fuse Size	NH1

**Dimensions**

Depth of installed product	110 mm
Height of installed product	306 mm
Length	131 mm
Width of installed product	184 mm

**Power**

Total power loss under IN	20 W
Loss power at full load	89 W
Maximum Power loss of the Fuse-Link installed in device	23 W
Dissipated energy in cable	43.44 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	444 g
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**Installation, mounting**

Tightening torque	20
Torque at mounting on busbar	6 Nm

**Connection**

Connection cross-sect. flexible conductor	6 / 150mm <sup>2</sup>
Connection cross-sect. rigid cable	6 / 150mm <sup>2</sup>
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
Standard cross section according to IEC 60947-1 Tables 9 and 10	120 mm <sup>2</sup>
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

REACH conform	Yes
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

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Max. temperature connected above with Fuse-Links IEC 60947-1 Tab 2	69 K
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