



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 Ue | 0 / 690 V |
| Frequency                    | 50-60 Hz  |

**Voltage**

|                                 |        |
|---------------------------------|--------|
| Rated insulation voltage        | 1000 V |
| Rated impulse withstand voltage | 8 kV   |

**Electric current**

|                                                                                  |                                                                                                   |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Rated current for Ue=400V AC according to IEC 61439-1 5.3.2                      | 250 A                                                                                             |
| Rated current for Ue=500V AC according to IEC 61439-1 5.3.2                      | 250 A                                                                                             |
| Rated current for Ue=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 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   | 250 A                                                                                             |
| Fuse-links test rated cond. short-circuit current Ue=500V IEC 61439-1 3.8.10.4   | 250 A                                                                                             |
| Fuse-links test rated cond. short-circuit current Ue=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 Ue=500V IEC 61439-1 3.8.10.4         | 80 kA                                                                                             |
| Rated current for Ue=250V DC according to IEC 61439-1 5.3.2                      | 250 A                                                                                             |
| Rated current for Ue=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 |
|------------------------------|-------|

**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 |

#### **temperatur**

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