**Description**

The Littelfuse LS6 dc series is an energy-efficient, compact disconnect switch that quickly breaks or resumes the flow of current safely to prevent shock hazards when trying to isolate circuits or repair systems.

**Features/Benefits**

- Streamline design eliminates the need for external bridging links (jumpers) to lower heat dissipation for increased energy efficiency, decreased installation and maintenance time, and reduced footprint for added design flexibility
- High-level disconnection insulation provides a barrier to stop conduction when switch is in off position for added safety
- The self-cleaning blade contacts eliminate performance degradation (from increased electrical resistance over time) to ensure consistent behavior across the product’s lifespan
- The internally-located “sandwich-type” 2-contact symmetrical design mitigates the electromagnetic force of repulsion to offer enhanced functionality in short-circuit conditions
- Meets UL 94 flammability requirements with self-extinguishing/non-flammable materials to prevent fires

**Applications**

- Solar/PV systems: combiner boxes, recombiner boxes and inverters
- Energy storage systems: disconnection of batteries, containerized batteries
- Oil & gas: dc drives
- Railway: earthing switches and battery disconnection
- UPS: switching and isolation of batteries

**Specifications**

**UL 98B Standards**

- Total Voltage Rating: 1000 V dc
- Amperage Rating: 400 A
- SCCR Rating: 10 kA
- Ambient Temperature: -20 to 50 °C (-4 to 122 °F)

**IEC 60947-3 Standards**

- Insulation Voltage Rating: 1500 V dc
- Impulse Withstand Voltage: 12 kV

**Other Characteristics**

- Power Losses at 400 A: 2 Pole (2E): 18.4 watts/pole
  1 Pole (1M): 36.11 watts total
- Minimum Connection Wire Range / AWG: 300 kcmil/MCM (152 mm²)
- Maximum Connection Wire Range / AWG: 350 kcmil/MCM (177 mm²)
- Number of Circuits/Switches: 1
- Mechanical Operations: 8,000
- Tightening Torque: 212 lbf-in (24 N-m)
- Material: Plastic housing
  Silver-plated copper terminals
- Base Mounting: Screws
- Flammability Rating: UL 94 V-0
- Approvals: UL 98B & UL 94
  UL Guide WHVA
  UL Listed E333311
  NEC Article 690 for PV systems
  IEC-60947-3
  CE
  EAC
- Environmental: RoHS compliant
  REACH
- Country of Origin: Spain

**Recommended Accessories**

- Panel handle with shaft LDSLA21 for closed panel door access
- Direct handle LDSLI21 for open panel door access
- Auxiliary contacts LD5LAU01 remotely indicate switch position
- Phase barriers LDRSF21 (Type 1M) and LDRSF23 (Type 2E) isolate sections to eliminate arcing between the phases
- Terminal lug LDRTL22W safely connects electrical and mechanical devices (phase barriers must be used in order to maintain the required clearance)
- Terminal shrouds LDRCU23W offer protection against direct contact after wiring
- Spacers LDREL21W increase distance between switch and mounting plate
Dc Disconnect Switch
LS60400 1000 V DC SERIES

Part Numbering System
LS6 0400 1M S 00L
Series
Amperage
Configuration Type
1M = 1 Pole
2E = 2 Pole
UL product
Terminal Measurement

Configuration
Type 1M (1 Pole)
Type 2E (2 Pole)

Ordering Information

<table>
<thead>
<tr>
<th>SERIES</th>
<th>TOTAL VOLTAGE</th>
<th>AMPERAGE</th>
<th>INSTALLATION</th>
<th>CONFIGURATION</th>
<th>POLES</th>
<th>SINGLE UNIT WEIGHT</th>
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<tbody>
<tr>
<td>LS604001MS00L</td>
<td>1000 V dc</td>
<td>400 A</td>
<td>Grounded</td>
<td>Type 1M</td>
<td>1</td>
<td>2 kg</td>
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<tr>
<td>LS604002ES00L</td>
<td>1000 V dc</td>
<td>400 A</td>
<td>Ungrounded</td>
<td>Type 2E</td>
<td>2</td>
<td>3 kg</td>
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Dimensions Millimeters

Dc Disconnect Switch
- Side View

Switch + Direct Handle

Panel Handle with Shaft
LDSLA21

Auxiliary Contact
LD5AU01

Terminal Lug Measurements

<table>
<thead>
<tr>
<th>LDRTL22W</th>
<th>3/0 85 MM² MIN.</th>
<th>CONDUCTOR TEMPERATURE RATING</th>
<th>COPPER WIRE ONLY M (TERMINAL TORQUE) (+5%</th>
<th>-10%)</th>
<th>N+M</th>
<th>LB. INCH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>400 KCMIL 240 MM² MAX.</td>
<td>75 °C</td>
<td>M10</td>
<td>24</td>
<td>212</td>
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</table>

Torque and Cable Capacity Instructions

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