# Dc Disconnect Switch LS60250 SERIES

#### 500 V Dc • 250 A







Type 1V Dc Grounded with Handle Attached



#### **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 shortcircuit conditions
- Meets UL 94 flammability requirements with selfextinguishing/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
- Electrical vehicle chargers

# REACH [fil CE [II] (I) RoHS

### **Specifications**

#### **UL 98B Standards**

Total Voltage Rating500 V dcAmperage Rating250 ASCCR Rating10 kA

Ambient Temperature -20 to 50 °C (-4 to 122 °F)

IEC 60947-3 Standards

Insulation Voltage Rating Ui 1500 V dc

**Impulse Withstand Voltage** 

**Rating Uimp** 12 kV

**Operational Current** 

**DC21B Rating** 250 A/500 V dc

**Other Characteristics** 

Power Losses at 250 A 10.08 watts

**Minimum Connection** 

Wire Range/AWG 400 kcmil/MCM (203 mm<sup>2</sup>)

**Maximum Connection** 

Wire Range/AWG 500 kcmil/MCM (253 mm<sup>2</sup>)

Number of Circuits/Switches 1 Mechanical Operations 8,000

**Tightening Torque** 159 lbf-in (18 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 Guide WHVA UL Listed E511898

NEC Article 690 for PV systems

IEC-60947-3 CE EAC

**Environmental** RoHS compliant

REACH

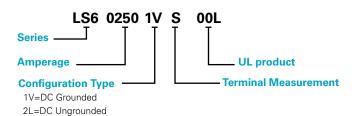
Country of Origin Spain

#### **Recommended Accessories**

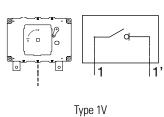
- Panel handle with shaft LDSSA11 for closed panel door access
- Direct handle LDSI11 for open panel door access
- Auxiliary contacts LD5LAU01 remotely indicate switch position
- Phase barriers LDRSF11 (Type 1V) and LDRSF12 (Type 2L) isolate sections to eliminate arcing between the phases
- Terminal lug LDRTL11W safely connects electrical and mechanical devices (phase barriers must be used in order to maintain the required clearance)
- Terminal shrouds LDRCU11W offer protection against direct contact after wiring
- Spacers LDREL11W increase distance between switch and mounting plate

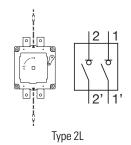


## **Part Numbering System**



# Configuration



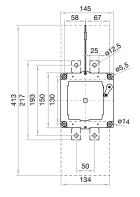


## **Ordering Information**

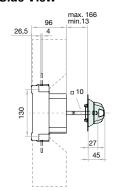
| DC DISCONNECT SWITCH |          |          |              |               |                    |
|----------------------|----------|----------|--------------|---------------|--------------------|
| PART NUMBER          | VOLTAGE  | AMPERAGE | INSTALLATION | CONFIGURATION | SINGLE UNIT WEIGHT |
| LS602501VS00L        | 500 V dc | 250 A    | Grounded     | Type 1V       | 2 kg               |
| LS602502LS00L        | 500 V dc | 250 A    | Ungrounded   | Type 2L       | 3 kg               |

#### **Dimensions Millimeters**

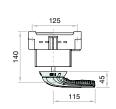
#### **Dc Disconnect Switch**



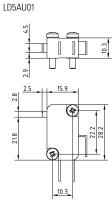
# Switch + Direct Handle - Side View



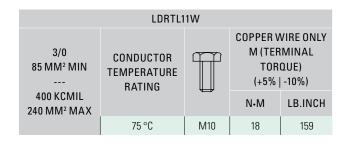
# Panel Handle with Shaft LDSSA11



#### **Auxiliary Contact**



# **Terminal Lug Measurements**



Torque and Cable Capacity Instructions

10-32 UNF TORQUE/PAR 26,55 lb.inch/3 Nxm

7/8-14 UNF TORQUE/PAR 5000 lb.inch/56 Nxm

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