## **Dc Disconnect Switch** LS60400 SERIES

#### 1000 V Dc • 400 A

#### REACH [II CE III (I) ROHS

# CC TO STATE OF STATE



Type 2E Dc Ungrounded

Type 1M 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

#### **Specifications**

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

Total Voltage Rating1000 V dcAmperage Rating400 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** 400 A/1000 V dc

**Other Characteristics** 

Power Losses at 400 A 36.11 watts

**Minimum Connection** 

Wire Range/AWG 300 kcmil/MCM (152 mm<sup>2</sup>)

**Maximum Connection** 

Wire Range/AWG 350 kcmil/MCM (177 mm<sup>2</sup>)

**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 98B & UL 94

UL Guide WHVA UL Listed E511898

NEC Article 690 for PV systems

IEC-60947-3 CE

**Environmental** RoHS compliant

REACH

EAC

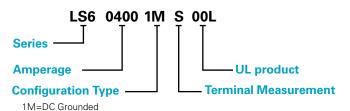
Country of Origin Spain

#### **Recommended Accessories**

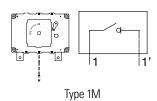
- Panel handle with shaft LDSLA21 for closed panel door access
- Direct handle LDSLI21 for open panel door access
- Auxiliary contacts LD5LAU01 remotely indicate switch position
- Phase barriers LDRSF21 (Type 1M) and LDRSF23 (Type 2E) isolate sections to eliminate arcing between the phases
- Terminal 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

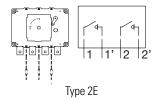
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#### **Part Numbering System**



#### **Configuration**





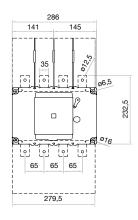
#### **Ordering Information**

2E=DC Ungrounded

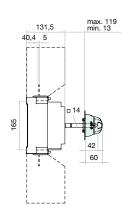
DC DISCONNECT SWITCH					
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT
LS604001MS00L	1000 V dc	400 A	Grounded	Type 1M	2 kg
LS604002ES00L	1000 V dc	400 A	Ungrounded	Type 2E	3 kg

#### **Dimensions Millimeters**

#### **Dc Disconnect Switch**

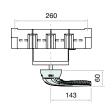


## Switch + Direct Handle - Side View



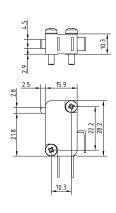
#### Panel Handle with Shaft

LDSLA21

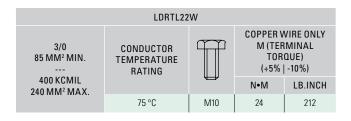


#### **Auxiliary Contact**

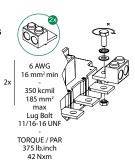
LD5AU01



#### **Terminal Lug Measurements**



### **Torque and Cable Capacity Instructions**



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