Dc Disconnect Switch LS60400 SERIES

500 V Dc • 400 A

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Type 2L Dc Ungrounded

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

Specifications

UL 98B Standards

Total Voltage Rating500 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/500 V Dc

Other Characteristics

Power Losses at 400 A 18.4 watts

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 E511898

NEC Article 690 for PV systems

IEC-60947-3 CE

Environmental RoHS compliant

REACH

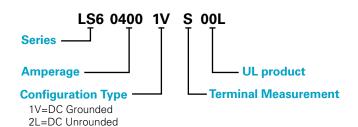
EAC

Country of Origin Spain

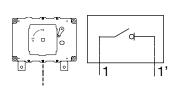
Recommended Accessories

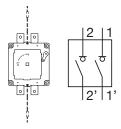
- Panel handle with shaft LDSLA21 for closed panel door access
- Direct handle LDSLI21 for open panel door access
- Auxiliary contacts LD5LAU01 remotely indicate switch position
- Phase barriers LDRSF21 (Type 1V) and LDRSF22 (Type 2L) isolate sections to eliminate arcing between the phases
- Terminal lug LDRTL22W safely connects electrical and mechanical devices (phase barriers must be used in order to maintain the required clearance)
- Terminal shrouds LDRCU21W offer protection against direct contact after wiring
- Spacers LREL21W increase distance between switch and mounting plate

Part Numbering System



Configuration





Type 1V

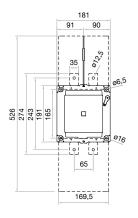
Type 2L

Ordering Information

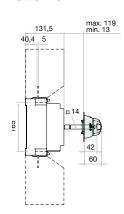
DC DISCONNECT SWITCH					
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT
LS604001VS00L	500 V Dc	400 A	Grounded	Type 1V	2 kg
LS604002LS00L	500 V Dc	400 A	Ungrounded	Type 2L	3 kg

Dimensions Millimeters

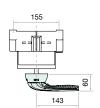
Dc Disconnect Switch



Switch + Direct Handle - Side View

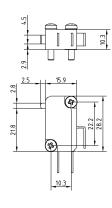


Panel Handle with Shaft LDSLA21

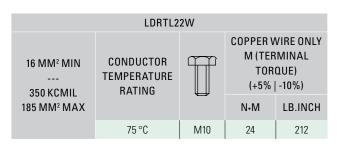


Auxiliary Contact

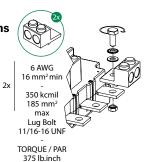
LD5AU01



Terminal Lug Measurements



Torque and Cable Capacity Instructions



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