

Dc Disconnect Switch

LS60250 SERIES

1000 V Dc • 250 A

REACH ENE CE IEC UL RoHS



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 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
- Electrical vehicle chargers

Specifications

UL 98B Standards

Total Voltage Rating	1000 V dc
Amperage Rating	250 A
SCCR Rating	10 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/1000 V dc

Other Characteristics

Power Losses at 250 A	19.59 watts
Minimum Connection Wire Range/AWG	400 kcmil/MCM (203 mm ²)
Maximum Connection Wire Range/AWG	500 kcmil/MCM (253 mm ²)
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 Listed E511898 NEC Article 690 for PV systems IEC-60947-3 CE EAC RoHS compliant REACH Spain
Environmental	
Country of Origin	

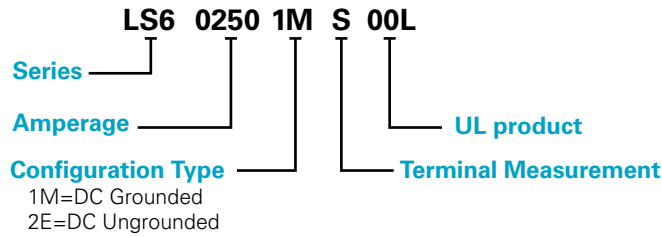
Recommended Accessories

- Panel handle with shaft LDSSA11** for closed panel door access
- Direct handle LDSSI11** for open panel door access
- Auxiliary contacts LD5LAU01** remotely indicate switch position
- Phase barriers LDRSF11 (Type 1M) and LDRSF13 (Type 2E)** 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 LDRCU13W** offer protection against direct contact after wiring
- Spacers LDREL11W** increase distance between switch and mounting plate

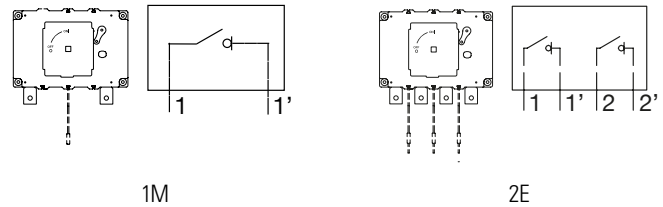
Dc Disconnect Switch

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Part Numbering System



Configuration

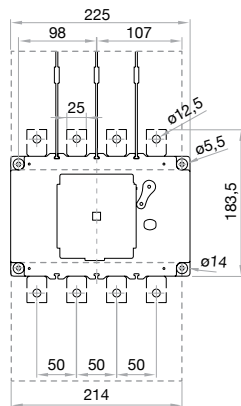


Ordering Information

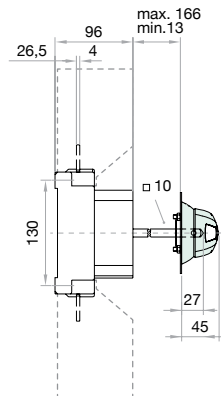
DC DISCONNECT SWITCH					
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT
LS602501MS00L	1000 V dc	250 A	Grounded	Type 1M	2 kg
LS602502ES00L	1000 V dc	250 A	Ungrounded	Type 2E	3 kg

Dimensions Millimeters

Dc Disconnect Switch

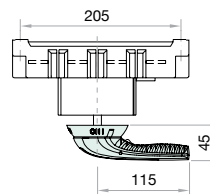


Switch + Direct Handle - Side View



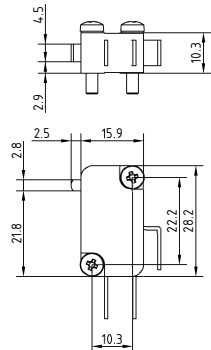
Panel Handle with Shaft

LDSSA11



Auxiliary Contact

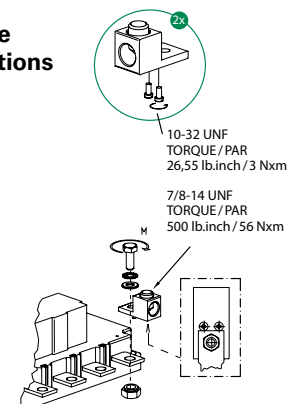
LD5AU01



Terminal Lug Measurements

LDRTL11W				
3/0 85 MM ² MIN. --- 400 KCMIL 240 MM ² MAX.	CONDUCTOR TEMPERATURE RATING		COPPER WIRE ONLY M (TERMINAL TORQUE) (+5% -10%)	
			N•M	LB.INCH
	75 °C	M10	18	159

Torque and Cable Capacity Instructions



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