

Dc Disconnect Switch

LS7R0320

1500 V Dc • 320 A

REACH ENEC CE IEC UL RoHS



Description

The Littelfuse LS7R 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. It is a 1500 V dc disconnect for ungrounded systems.

Features/Benefits

- The patented operation system minimizes damage caused by arcs upon disconnection to increase product reliability and longevity
- 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	1500 V dc
Amperage Rating	320 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	320 A / 1500 V dc

Other Characteristics

Power Losses at 320 A	13.55 watts
------------------------------	-------------

Maximum Busbar

Connection Range	1 bar x 5 mm (.20") H x 40 mm (1.58") L
-------------------------	---

Number of Circuits/Switches 1

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

Environmental RoHS compliant

REACH

Country of Origin Spain

Recommended Accessories

▪ Panel Handle with Shaft LDSSA11

For closed panel door access

▪ Direct Handle LDSSI11

For open panel door access

▪ Auxiliary Contact LDMAU11

Remotely indicates switch position

▪ Spacers LDME11

Increase distance between switch and mounting plate

Dc Disconnect Switch

LS7R0320

Part Numbering System

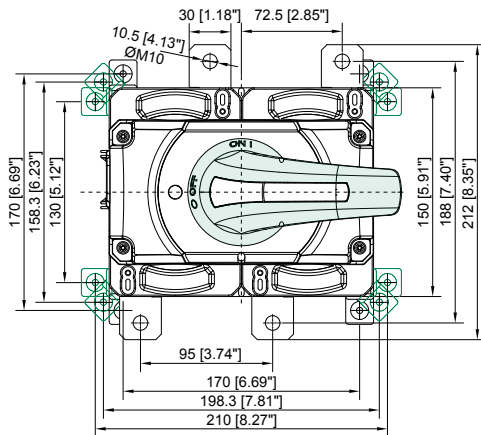


Ordering Information

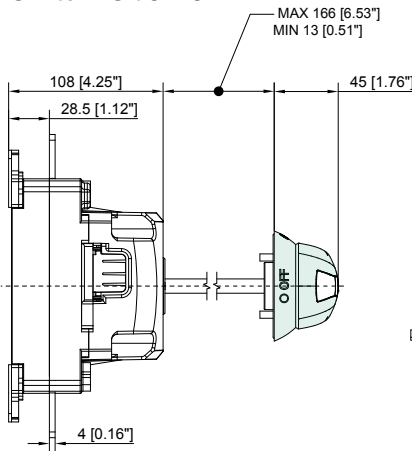
DC DISCONNECT SWITCH					
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT
LS7R0320PS00L	1500 V dc	320 A	Ungrounded	Type 2P	3 kg

Dimensions Millimeters (Inches)

Dc Disconnect Switch

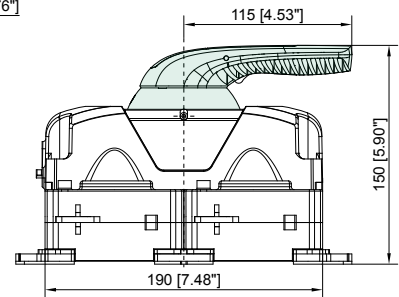


Switch - Side View

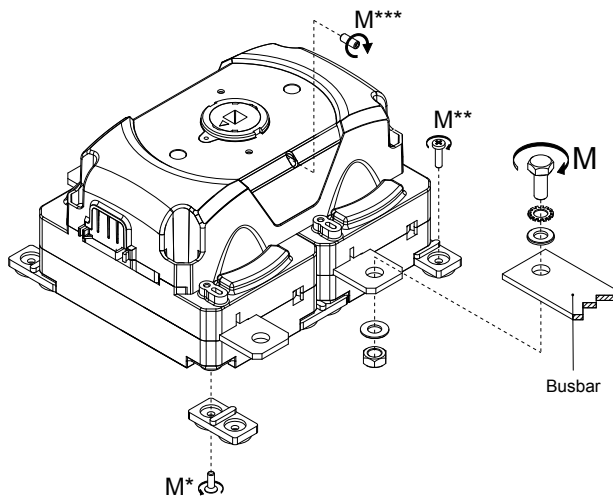


Panel Handle with Shaft

LDSSA11



Switch - 3D Installation View



Busbar

QTY		COPPER BUSBAR M (TERMINAL TORQUE) (+5 % -10 %)		COPPER BUSBAR H MAX (CU)		COPPER BUSBAR L MAX (CU)	
		N•M	LBF•INCH	MM	INCH	MM	INCH
1	M10	18	159	5	13/64	40	1 37/64
M		M (+5 % -10 %)		MINIMUM BUSBAR SECTION ACCORDING TO UL 98B			
		N•M	LBF•INCH				
*	T20	M4	1.2	10.6			
**	—	M4	1.5	13.3			
***	Allen	M5	1.5	13.3			

Disclaimer Notice – Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/product-disclaimer.