Dc Disconnect Switch

LS7R0320

1500 V Dc • 320 A



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 LDMEL11**
  Increase distance between switch and mounting plate

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Part Numbering System

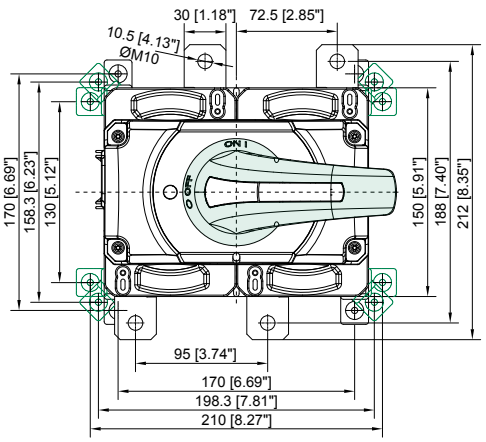


Ordering Information

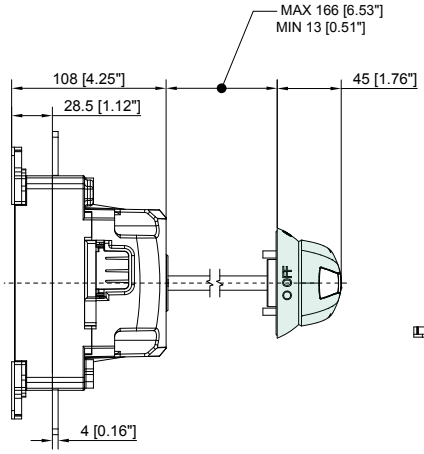
DC DISCONNECT SWITCH					
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT
LS7R03202PS00L	1500 V dc	320 A	Ungrounded	Type 2P	3 kg

Dimensions Millimeters (Inches)

Dc Disconnect Switch

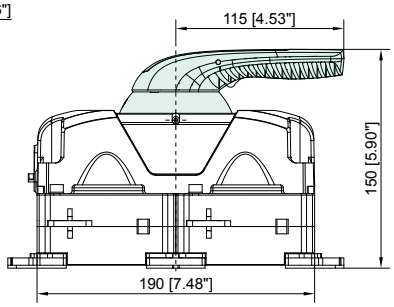


Switch - Side View

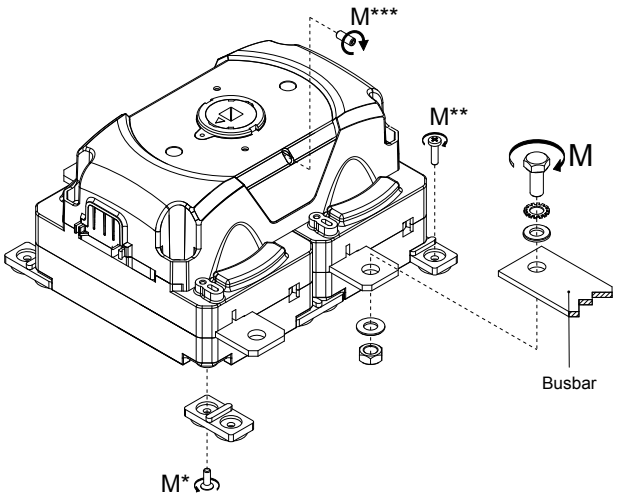


Panel Handle with Shaft

LDSSA11



Switch - 3D Installation View

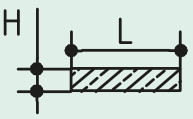


Busbar

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 %)	
			N•M	LBF•INCH
*	T20	M4	1.2	10.6
**	—	M4	1.5	13.3
***	Allen	M5	1.5	13.3

MINIMUM BUSBAR SECTION ACCORDING TO UL 98B



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