

Dc Disconnect Switch

LS7R0400

1500 V Dc • 400 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	400 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	400 A / 1500 V dc

Other Characteristics

Power Losses at 400 A	21.15 watts
Maximum Busbar	
Connection Range	2 bars x 4 mm (.16") H x 32 mm (1.25") L
Number of Circuits/Switches	1
Tightening Torque	159 lbf-in (18 N·m) for M10 screw
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

LS7R0400

Part Numbering System

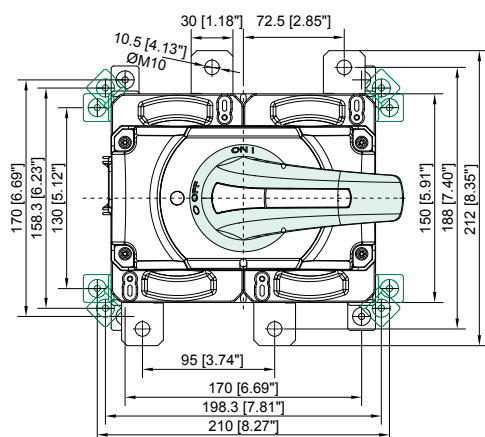


Ordering Information

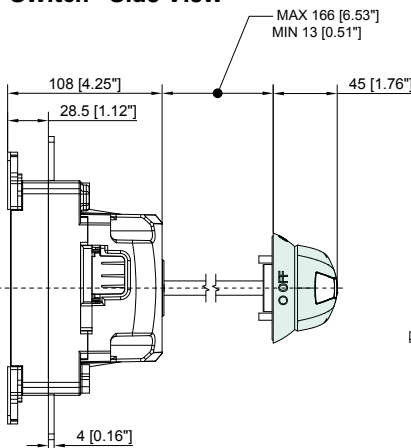
DC DISCONNECT SWITCH					
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT
LS7R04002PS00L	1500 V dc	400 A	Ungrounded	Type 2P	3 kg

Dimensions Millimeters (Inches)

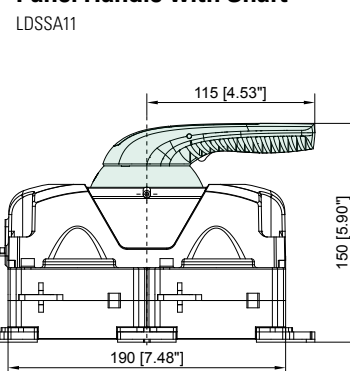
Dc Disconnect Switch



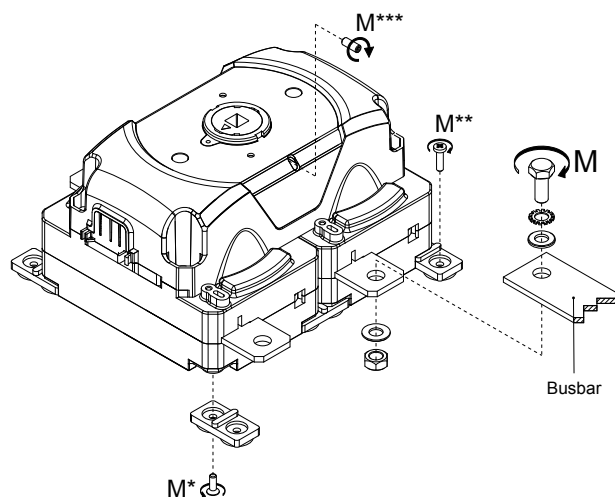
Switch - Side View



Panel Handle with Shaft



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
2	M10	18	159	4	5/32	32	1¼
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.