

# Dc Disconnect Switch

## LS6R0400 SERIES

1500 V Dc • 400 A

REACH EAC CE IEC UL RoHS



Type CB  
Dc Ungrounded



Type 4D  
Dc Grounded with handle attached



### Description

The Littelfuse LS6R 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

- 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

<b>Total Voltage Rating</b>	1500 V dc
<b>Amperage Rating</b>	400 A
<b>SCCR Rating</b>	10 kA
<b>Ambient Temperature</b>	-30 to 50 °C (-22 to 122 °F)

#### IEC 60947-3 Standards

<b>Insulation Voltage Rating Ui</b>	1500 V dc
<b>Impulse Withstand Voltage</b>	

<b>Rating Uimp</b>	12 kV
<b>Operational Current</b>	
<b>DC21B Rating</b>	400 A/1500 V dc

#### Other Characteristics

<b>Power Losses at 400 A</b>	10.58 watts
<b>Maximum Busbar</b>	
<b>Connection Range</b>	2 bars x 4 mm (.16") H x 32 mm (1.26") L
<b>Number of Circuits/Switches</b>	1
<b>Mechanical Operations</b>	8,000
<b>Tightening Torque</b>	212 lbf-in (24 N·m)
<b>Material</b>	Plastic housing Silver-plated copper terminals
<b>Base Mounting</b>	Screws
<b>Flammability Rating</b>	UL 94 V-0
<b>Approvals</b>	UL 98B & UL 94 UL Guide WHVA UL Listed E511898 NEC Article 690 for PV systems IEC-60947-3 CE EAC

<b>Environmental</b>	RoHS compliant REACH
<b>Country of Origin</b>	Spain

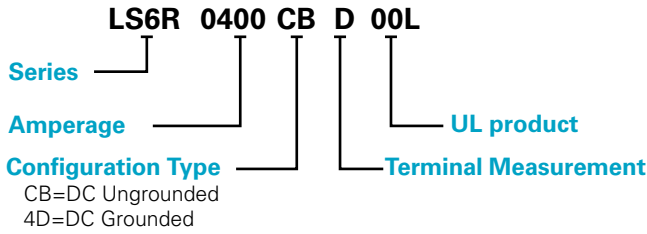
### Recommended Accessories

- **Panel Handle with Shaft LDSSA11**  
For closed panel door access
- **Direct Handle LDSS11**  
For open panel door access
- **Auxiliary Contact LD5LAU01**  
Remotely indicates switch position

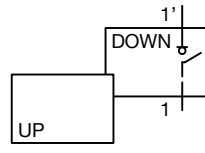
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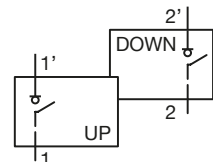
### Part Numbering System



### Configuration



Type 4D



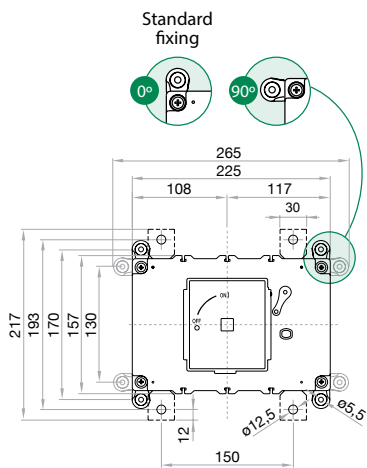
Type CB

### Ordering Information

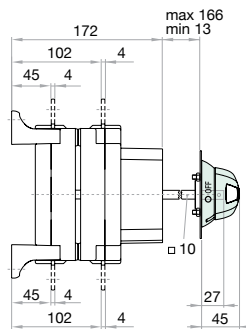
DC DISCONNECT SWITCH					
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT
LS6R04004DD00L	1500 V dc	400 A	Grounded	Type 4D	4.5 kg
LS6R0400CBD00L	1500 V dc	400 A	Ungrounded	Type CB	4.5 kg

### Dimensions Millimeters

#### Dc Disconnect Switch

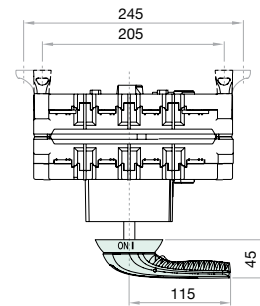


#### Switch - Side View



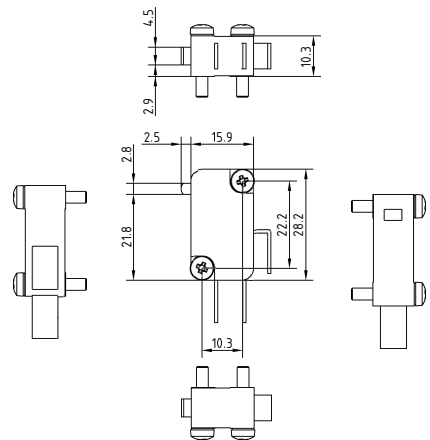
#### Panel Handle with Shaft

LDSSA11



#### Auxiliary Contact

LD5AU01



#### Busbar

COPPER BUSBAR H MAX (CU)		COPPER BUSBAR L MAX (CU)			COPPER BUSBAR M (TERMINAL TORQUE) (+5 %   -10 %)	
MM	INCH	MM	INCH		N•M	LB•INCH
4	5/32	32	1¼	M12	24	212

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