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Application	Uninterrupted
Thermal Current Rating (Ith)	200A
Intermittent Current Rating:	
30% Duty	365A
40% Duty	315A
50% Duty	285A
60% Duty	260A
70% Duty	240A
Rated Fault Current Breaking Capa (in accordance with UL583*)	city ([/] cn) 5ms Time Constant:
SD200	800A at 48V D.C.
SD200B	800A at 80V D.C.
Maximum Recommended Contact \	/oltages (U _e):
SD200	48V D.C.
SD200B	96V D.C.
Typical Voltage Drop per pole across New Contacts at 100A	<40mV
Mechanical M.T.B.F	>10 x 10 ³
Electrical M.T.B.F	>3 x 10 ⁶
Coil Voltage Available (U _S)	From 6 to 240V A.C./D.C.**
Coil Power Dissipation:	
Highly Intermittent Rated Types	20 - 30 Watts
Intermittently Rated types	15 - 20 Watts
Prolonged Rated Types	13 - 15 Watts
Continuously Rated Types	7 - 13 Watts
Maximum Pull-In Voltage (Coil at 20	0°C) Guideline:
Highly Intermittent Rated types (Max 25% Duty Cycle)	60% U _S
Intermittently Rated types (Max 70% Duty Cycle)	60% U _S
Prolonged Operation (Max 90% Duty Cycle)	60% U _S
Continuously Rated Types (100% Duty Cycle)	66% U _S
Drop-Out Voltage Range	10 - 25%
Typical Pull-In Time	20ms
Typical Drop-Out Time (N/O Contac	ts to Open):
Without Suppression	5ms
With Diode Suppression	50ms
With Diode and Resistor (Subject to resistance value)	8 - 20ms
Typical Contact Bounce Period	3ms
Operating Ambient Temperature	- 40°C to + 60°C
Guideline Contactor Weight:	
SD200	480 gms
With Auxiliary	+ 20 gms
With Blowouts	+ 50 gms
Auxiliary	Details
Auxiliary Thermal Current Rating	5A
Auxiliary Contact Switching Capa	
	5A at 24V D.C.
	2A at 48V D.C.
	0.5A at 240V D.C.
Advised Connection Sizes for Ma	ximum Continuous Current
Copper busbar	129mm ² [0.2inch ²]
Cable	Rated suitable for Application
Cable	Rated suitable for Application

Key: d = Uninterrupted

Note: Where applicable values shown are at 20°C

* Please check our web site for product UL status

** A.C. Rectifier available on Fuseholder type only

The SD200 has been designed to provide a rapid means of disconnecting batteries or other power supplies in the event of serious electrical faults.

The SD200 combines the dual function of a manual disconnect and coil operated line contactor. The benefits of this design include compact size and reduced installation costs combined with an electrical capacity sufficient for small and medium size electric vehicles.

Whilst the switches are primarily intended for use with battery powered vehicles, they are also suitable for use with static power systems. All types are capable of safely rupturing full load battery currents in the event of an emergency.

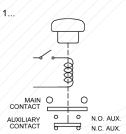
Optionally a fuseholder for an inline fuse can be provided pre-fitted. This modification adjusts the positions of the coil terminals and is suitable for ANL or MEGA fuse configurations.



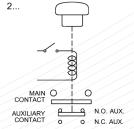
Modes of Operation:

Knob depressed Coil de-energised Main contacts open

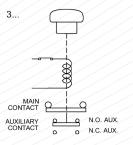
N.O. auxiliary contacts open



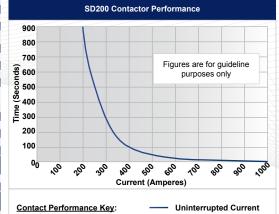
Knob in "ON" position Coil de-energised Main contacts open N.O. auxiliary contacts closed



Knob in "ON" position Coil energised Main contacts closed N.O. auxiliary contacts closed



The operation of the switch is such that with the operating knob depressed i.e. in the "off" position, no electrical functions can take place. However, if the knob is in the "On" position, the option of energising the coil and thus closing the main contacts becomes available. The coil energisation can be carried out either through the vehicle keyswitch or as a result of a signal from the vehicle electronic controller. When used as an emergency battery disconnect switch, manually depressing the operating knob will override the energised coil such that the main contact and the auxiliary contact (where fitted) will open until such time as the knob is again moved to the "on" position.



- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.
- Albright reserve the right to change data without prior

SD200 Available Options			
General		Suffix	
Auxiliary Contacts	0	Α	
Auxiliary Contacts - V3	X		
Magnetic Blowouts†	0	В	
Magnetic Blowouts - High Powered [†]	0	В	
Armature Cap [‡]	•		
Mounting Brackets	X		
Magnetic Latching [†] (Not fail safe)	X		
Closed Contact Housing	0		
Environmentally Protected IP55	X		
EE Type (Steel Shroud)	Х		
Lockable	Х		
Contacts			
Large Tips	Х		
Textured Tips	0	Т	
Silver Plating	X		
Coil			
AC Rectifier Board (Fitted) [‡]	0		
Coil Suppression [†]	0		
Flying Leads [‡]	0	F	
Manual Override Operation	•		
M4 Stud Terminals	Х		
M5 Terminal Board [‡]	0		
Vacuum Impregnation [‡]	0		
Key: Optional ○ Standard •	Not Availa	able X	

† Connections become polarity sensitive

[‡] Fuseholder type only

- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com
- notice

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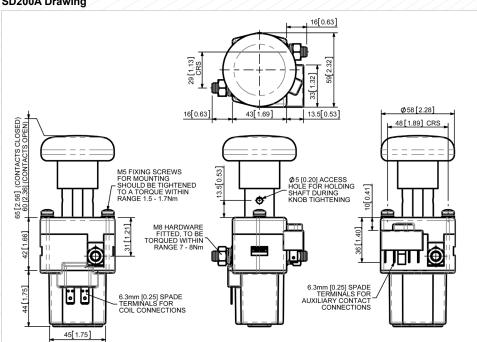
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The Use of Battery Disconnecting Switches in Electric Vehicles

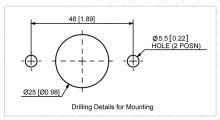
Modern battery powered electric vehicles are inherently very reliable and safe. However, even when sophisticated electronic controllers are used it is desirable to have a means of disconnecting the battery in the event of an emergency, such as a vehicle failing to stop or an electrical short circuit.

In many countries it is mandatory to fit one or more devices to achieve an emergency disconnection of the battery.

SD200A Drawing

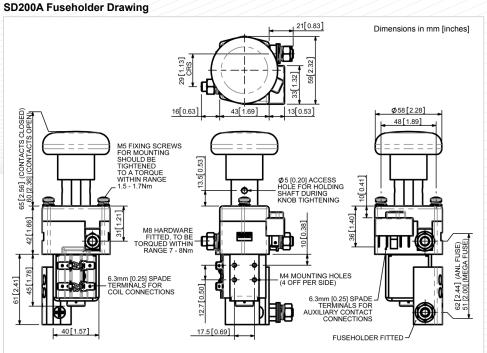






Drilling Details for Mounting

SD200A Fuseholder



Precautions:

When fitted with magnetic blowouts the polarity marked on the contact housing must be observed when connecting the main terminals. Ensure that the switches are installed in a position where heavy arcs emanating from the switch cannot damage or electrically jump across to adjacent parts.

The switch is to be used to rupture current in an emergency or as a no-load isolator. Do not use as a regular On-Load Switching Device.