

ED520 Double Pole Single Throw On/Off (Part of the Emergency/Combined Disconnect Series)

ED520

The ED520 range of switches have been designed to provide of a rapid means disconnecting batteries or other power supplies in the event of serious electrical faults. 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.

Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

The ED520 is a manually operated device with a snap action for both opening and closing of the main contacts. The ED520 is easy to install (see drilling details) and can be mounted using the main terminal busbars or secured with supplied M5 posidrive mounting screws on the frame of the device.

800

700

<del>ව</del> 600 

E 300

200

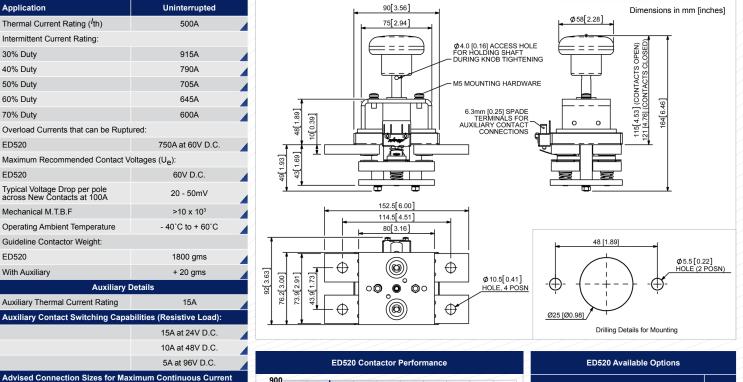
100

0

## **Precautions:**

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.



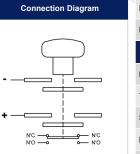
	5A at 96V D.C.			
Advised Connection Sizes for Maximum Continuous Current				
Copper busbar	322mm <sup>2</sup> [0.50 inch <sup>2</sup> ]			
Key: / = Uninterrupted				
Note: Where applicable values shown are at 20°C				

## 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.

- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com
  - Albright reserve the right to change data without prior notice



2000

2250

Figures are for guideline

purposes only

ED520 Available Options			
General		Suffix	
Auxiliary Contacts	0	А	
Auxiliary Contacts - V3	х		
Magnetic Blowouts <sup>†</sup>	х		
Magnetic Blowouts - High Powered <sup>†</sup>	х		
Mounting Brackets	х		
Closed Contact Housing	х		
Environmentally Protected IP66	х		
EE Type (Steel Shroud)	х		
Lockable	х		
Contacts			
Large Tips	х		
Textured Tips	х		
Silver Plating	0		
Key: Optional o Standard • Not Available X			
<sup>†</sup> Connections become polarity sensitive			

1000

500 150

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Contact Performance Key:

Uninterrupted Current

1250

Current (Amperes)

1500 1750

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