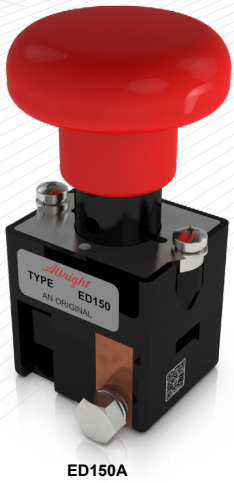
ED150 Single Pole Single Throw Normally Open
(Part of the Emergency/Combined Disconnect Series)

The ED150 range of switches have been designed to provide a rapid means of 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 ED150 is a manually operated device with a simple over-centre spring mechanism which provides a snap action for both opening and closing of the main contacts. The ED150 is easy to install (see drilling details) and is secured with supplied M5 posidrive mounting screws.



ED150A

Precautions:

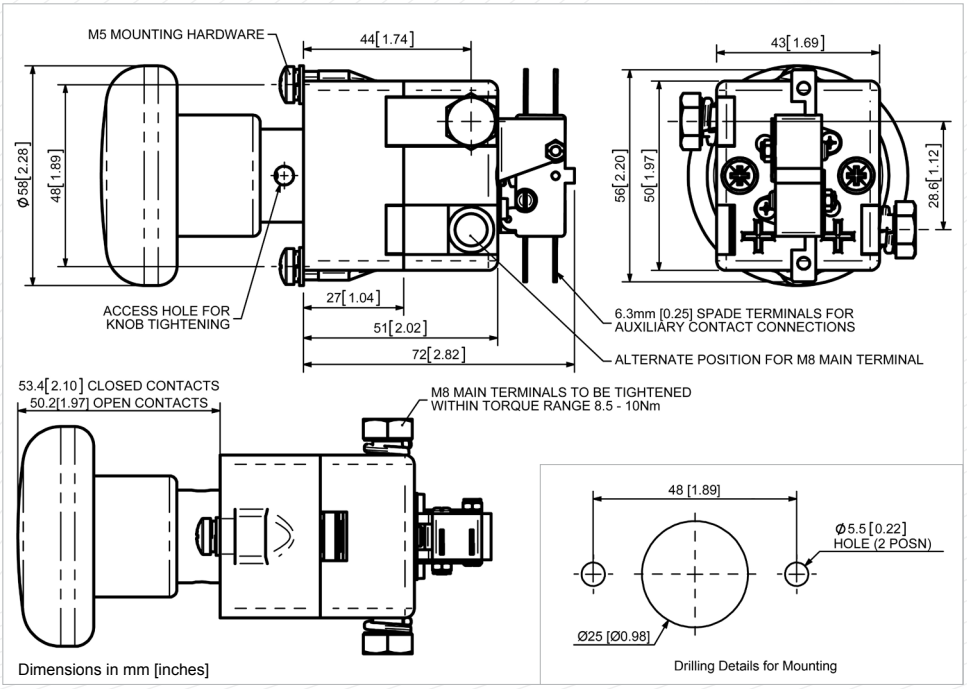
When fitted with magnetic blowouts the polarity marked on the contact housing must be observed when connecting the main terminals. Ensure that the switches are installed in a position where heavy arcs emanating from the switch cannot damage or electrically jump across to adjacent parts.

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.

Application	Uninterrupted
Thermal Current Rating (I^th)	150A
Intermittent Current Rating:	
30% Duty	275A
40% Duty	235A
50% Duty	210A
60% Duty	195A
70% Duty	180A
Overload Currents that can be Ruptured:	
ED150	1000A at 48V D.C.
ED150B	1000A at 96V D.C.
Maximum Recommended Contact Voltages (U_e):	
ED150	48V D.C.
ED150B	96V D.C.
Typical Voltage Drop per pole across New Contacts at 100A	40mV
Mechanical Durability	>10 x 10^3 Cycles
Operating Ambient Temperature	- 40˚C to + 60˚C
Guideline Contactor Weight:	
ED150	300 gms
With Auxiliary	+20 gms
With Blowouts	+50 gms
Auxiliary Details	
Auxiliary Thermal Current Rating	15A
Auxiliary Contact Switching Capabilities (Resistive Load):	
	15A at 24V D.C.
	10A at 48V D.C.
	5A at 96V D.C.
Cable rated suitable for application	

Key: ◢ = *Uninterrupted*

***Note:** Where applicable values shown are at 20˚C*



Dimensions in mm [inches]

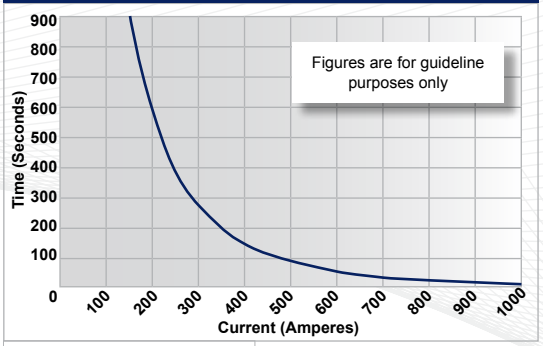
Drilling Details for Mounting

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.

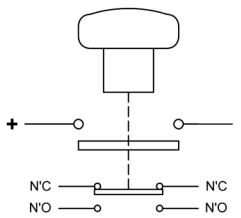
ED150 Contactor Performance



Contact Performance Key:

Uninterrupted Current

Connection Diagram



ED150 Available Options

General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	X	
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	X	
Mounting Brackets	X	
Closed Contact Housing	•	
Environmentally Protected IP66	X	
EE Type (Steel Shroud)	X	
Lockable	X	
Contacts		
Large Tips	X	
Textured Tips	X	
Silver Plating	X	

Key: Optional ○ Standard • Not Available X

† Connections become polarity sensitive

- **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**

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