

# SD300

## HEAVY DUTY D.C. BATTERY DISCONNECTING SWITCH



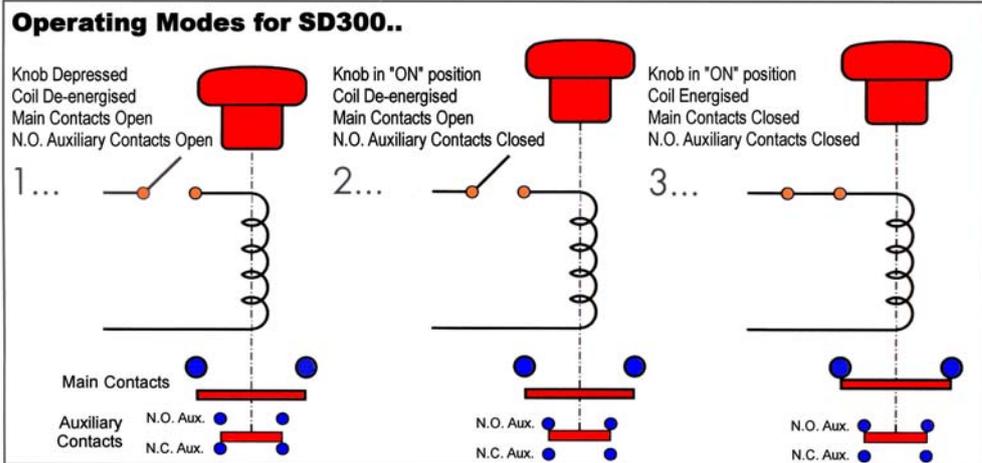
International announces a new addition to the ED & SD ranges of Battery Disconnection

Switches: **SD300** – This replaces the SD250 series.

The SD300 combines the dual function of a manual disconnect and coil operated line contactor and the benefits of this design include compact size and reduced installation costs combined with an electrical capacity sufficient for most small and medium size electric vehicles.

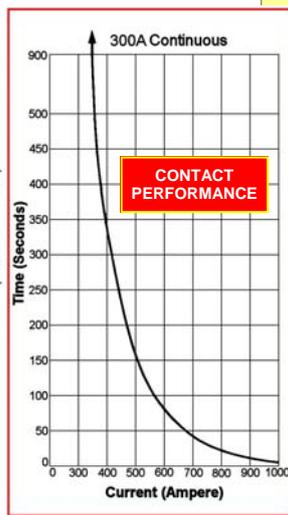
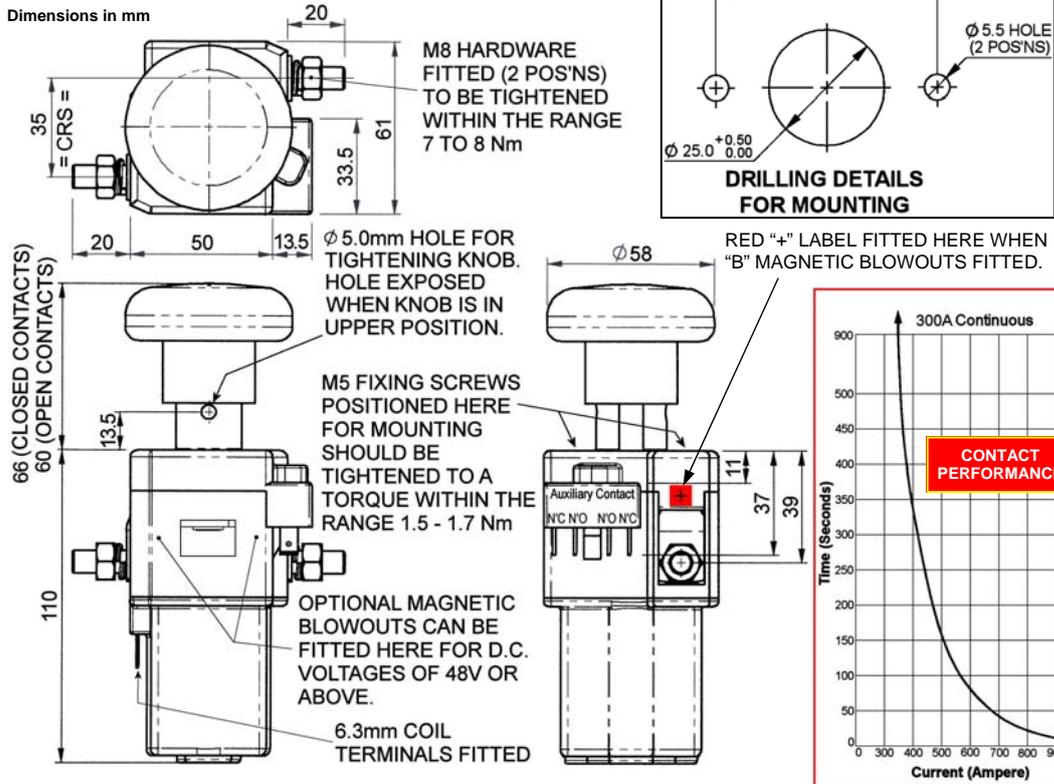


**SD300A**



### PERFORMANCE DATA

|   |                          |
|---|--------------------------|
| <b>Thermal Current Rating (100%):</b>   | 300 Ampere               |
| <b>Intermittent Current Ratings:</b>  |                          |
| 30% - 550 Ampere  | 60% - 400 Ampere         |
| 40% - 480 Ampere  | 70% - 360 Ampere         |
| 50% - 450 Ampere  |                          |
| <b>Typical Inductive Fault Currents that can be ruptured (5ms time constant):</b> |                          |
| SD300   | 1000 Amperes at 48V D.C. |
| SD300B  | 1000 Amperes at 80V D.C. |
| <b>Maximum Recommended Contact Voltages:</b>                                      |                          |
| SD300   | 48V D.C.                 |
| SD300B  | 96V D.C.                 |
| <b>Typical Voltage Drop across New Contacts per 100 Ampere:</b>                   | 30mV                     |
| <b>Mechanical Life:</b>   |                          |
| Manually Operated   | >10,000                  |
| Electrically Operated   | >3,000,000               |
| <b>Coil Power Dissipation:</b>  |                          |
| Intermittently Rated Types:   | 30 - 40 Watts            |
| Continuously Rated Types:   | 10 - 15 Watts            |
| <b>Maximum Pull-in Voltage (Coil at 20°C):</b>                                    |                          |
| Intermittently Rated Types:   | 60%V                     |
| Continuously Rated Types:   | 66%V                     |
| <b>Typical Drop-out Voltage (Coil at 20°C):</b>                                   | 10-25%                   |
| <b>Typical Pull-in time (contacts to close):</b>                                  | 30ms                     |
| <b>Typical Drop-out time (contacts to open):</b>                                  |                          |
| Without Suppression:  | 8ms                      |
| With Diode Suppression:   | 60ms                     |
| With Diode and Resistor (depending on value):                                     | 25ms                     |
| <b>Typical Contact Bounce Period:</b>   | 3ms                      |
| <b>Auxiliary Contact Thermal Current Rating:</b>                                  | 5 Ampere                 |
| <b>Auxiliary Contact Switching Capacities (Resistive Load):</b>                   |                          |
|   | 5A at 24V D.C.           |
|   | 2A at 48V D.C.           |
|   | 0.5A at 240V D.C.        |



Albright is registered under BS EN ISO 14001—Environmental Management System. Should you require information on the disposal of our products, please contact the Health, Safety & Environmental Manager of your Local Supplier for Disposal Guidance Note.



INTERNATIONAL

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