

SD300A



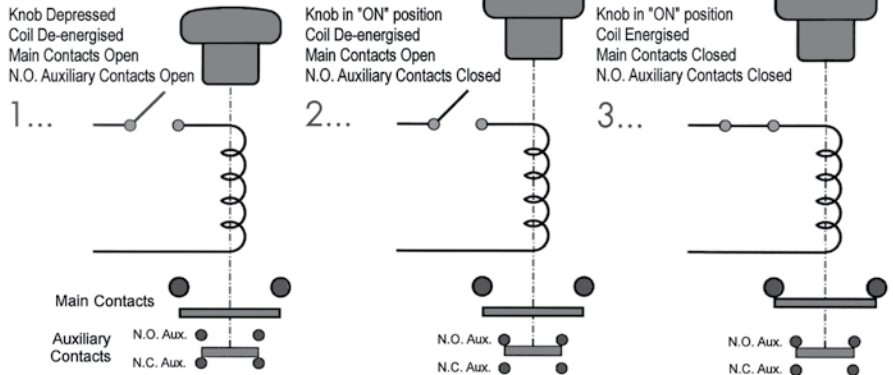
DESCRIPTION

Albright 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. 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.

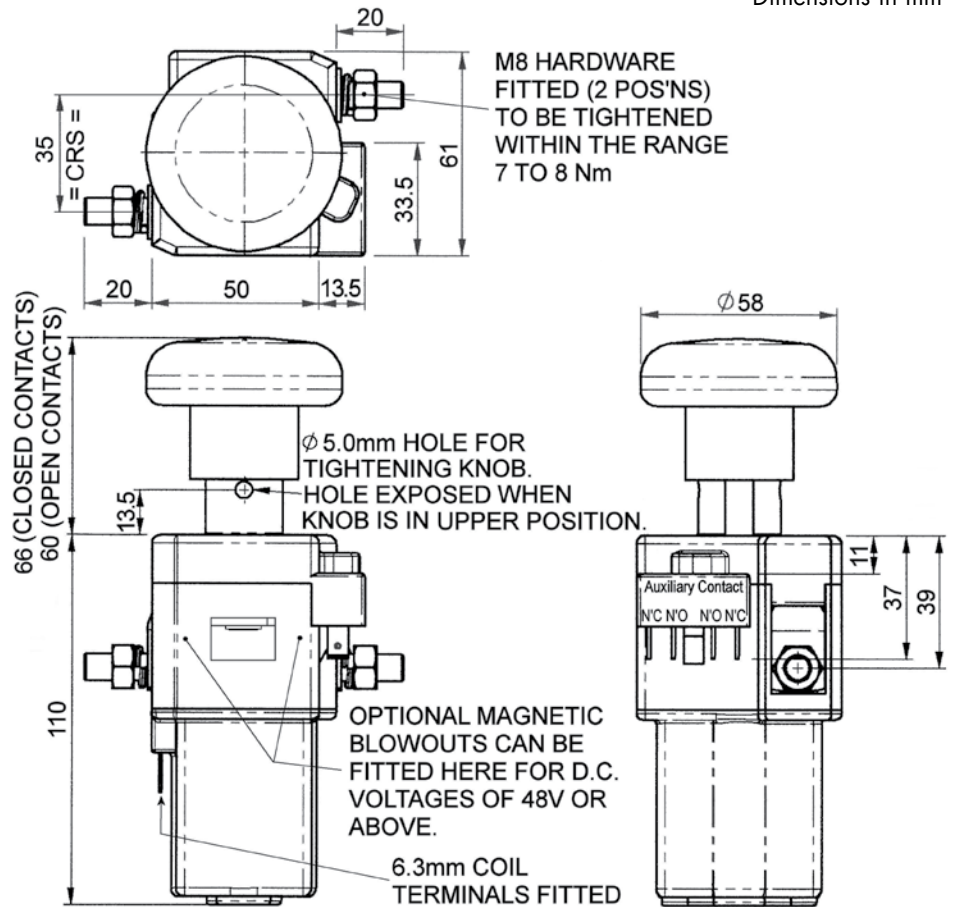
OPERATING MODES FOR SD300

Operating Modes for SD300..



DIMENSION DRAWINGS

Dimensions in mm



SD300 SERIES

PERFORMANCE DATA

Thermal Current Rating (100%):

300 Ampere

Intermittent Current Ratings:

30% - 550 Ampere 60% - 400 Ampere

40% - 480 Ampere 70% - 360 Ampere

50% - 450 Ampere

Typical Inductive Fault Currents that can be ruptured (5ms time Constant):

SD300 1000 Amperes at 48V D.C.

SD300B 1000 Amperes at 80V D.C.

Maximum Recommended Contact Voltages:

SD300 48V D.C.

SD300B 96V D.C.

Typical Voltage Drop across

New Contacts: 30mV

Mechanical Life:

Manually Operated >10,000

Electrically Operated >3,000,000

Coil Power Dissipation:

Intermittently Rated Types: 30 - 40 Watts

Continuously Rated Types: 10 - 15 Watts

Maximum Pull-in Voltage (Coil at 20°C):

Intermittently Rated Types: 60%V

Continuously Rated Types: 66%V

Typical Drop-out Voltage (Coil at 20°C):

10-25%

Typical Pull-in time (contacts to close): 30ms

Typical Drop-out time (contacts to Open):

Without Suppression: 8ms

With Diode Suppression: 60ms

With Diode and Resistor
(depending on value): 25ms

Typical Contact Bounce Period: 3ms

Auxiliary Contact Thermal Current Rating:

5 Ampere

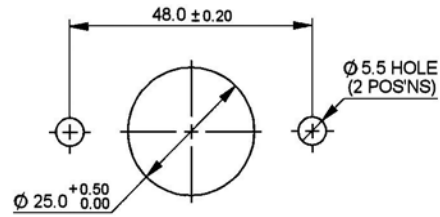
Auxiliary Contact Switching Capacities (Resistive Load):

5A at 24V D.C.

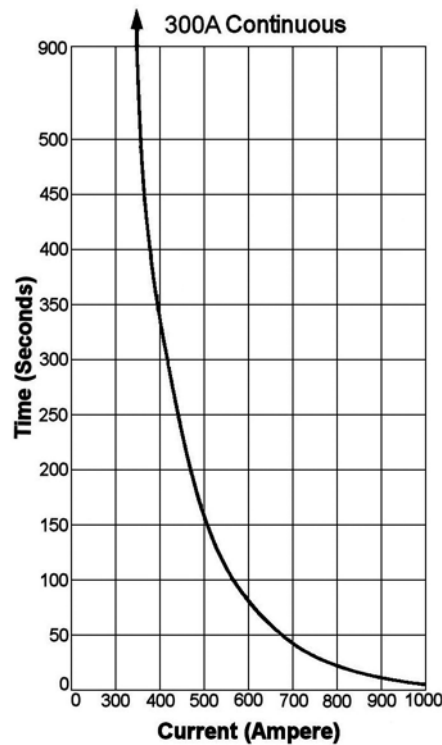
2A at 48V D.C.

0.5A at 240V D.C.

DRILLING DETAILS FOR MOUNTING



CONTACT PERFORMANCE



Please Note: All Performance data provided should be used as a guide only. Some de-rating or variation from these figures may be necessary according to type and application.

