DC installations

Datasheet

Remote Battery Switch (500 A)

The DC Modular Remote Battery Switch (the Switch) is a smart high current magnetic latching contactor, that can handle continuous DC currents of up to 500 Amps. The Switch can easily be installed in an engine room or battery compartment, while being controlled from a more convenient location by a small panel mounted switch. But the Switch can for instance also be controlled by a battery monitor or Lithium battery, as a discharge/overcharge protection.

	REMOTE BATTERY SWITCH 12-500	REMOTE BATTERY SWITCH 24-500
Article Nr.	50214733	50214734
TECHNICAL SPECIFICATIONS		
Rated voltage	60 VDC	60 VDC
Nominal current	500 A	500 A
Cranking current (1min.)	1000 A	1000 A
Nominal make / break current	500 A (0..34 Vdc) / 350 A (35..60 Vdc)	
Peak make / break current	1600 A (0..34 Vdc) / 1200 A (35..60 Vdc)	
CONTROL CIRCUIT (ELECTRICAL)		
Coil / supply voltage (+Vdc)	7..17 VDC	14..34 VDC
Coil / supply current (idle state)1)	< 100uA	
Coil / supply current (state change)1)	< 4 A	< 3 A
GENERAL		
Remote control	By control wires	
Local control2)	Top side buttons (On/Standby, Close contact, Open contact)	
Indicators	Top side LEDs for Contact open, Contact closed, Error and Setup	
Mechanical life	100000 cycles	
Electrical life	10000 cycles	
Operating temperature range	-20..+60°C	
Connection stud size	M10	
DC Modular grid size	1x3	
Protection class	IP65	
Dimensions	150.0 x 50.0 x 94.0 mm	
Weight	800 gr	
Standards	CE certified (EMC Directive 2014/30/EU, Low voltage Directive 2014/35/EU, RoHS Directive 2011/65/EU and Ignition protection standard ISO 8846)	

1) Due to the magnetic latch construction, the DCM-RBS draws virtually no current in the ON or OFF state. A current draw only exists shortly (500ms max) when changing the state of the contact.
2) Using the top side buttons, one can manually override the switch state as commanded through the control wires. A dedicated 'On/Standby' button also allows the user to put the DCM-RBS in a standby mode with open contact. In this mode any command from the control wires and/or manual override buttons are ignored.

Generating Confidence

Generating Confidence

WhisperPower
Remote Battery Switch

Features and Benefits:

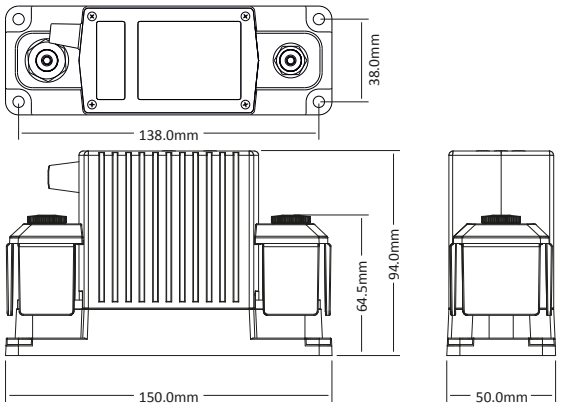
Besides controlling the Switch remotely, buttons positioned at the top also provide a way to open or close the main contact locally. For external control, the switch is equipped with a 5 wire interface cable. It can be configured to accept two wire or single wire ON/OFF commands for optimal flexibility.

The Switch is a magnetic latching relay, which means that there is no current draw from the battery when the contact is closed. This is a great benefit compared to regular relays which do require a (sometimes significant-) hold current to keep the contact closed.

Another benefit of the Switch are the built in protections. It is protected against high/low supply voltage and high temperature. On top of this, there is a smart function available to automatically fix light to medium contact weldings. And finally, the Switch is also ignition protected according to ISO8846.

The Switch can be part of a very compact DC distribution system (see page 128). The Switch footprint is around 50% smaller compared to some competing products, which is perfect for space constrained installations.

WP-Remote
Battery Switch



Abmessungen | Dimensions