



CONTROL

ADVANCED ELECTRONIC CONTROL TECHNOLOGIES

PNEUMATIC SYSTEM CONTROLLER
SDB



 **MAROTTA®**

We're in Control



The SDB compressor system is a pneumatic weapon ejection system for the SDBII to be used on various aircraft.



DC Brushless, Sensorless Motor Controller

As a natural evolution from Marotta's proven achievements with the Small Diameter Bomb program, Marotta has been selected to develop an efficient compressor system for the SDB II. The SDB Compressor System is a pneumatic weapon ejection system for the SDB II to be used on various aircraft.

The MCONTROL SDB System Controller will base its technology on the proven MCONTROL

segments and components developed for the MCONTROL MPACT-6000 Controller system. About 25% smaller than its predecessor, the SDB Controller will boast a dual input power supply option, three-phase AC system 115 VAC 400 Hz or 270 VDC. The SDB Controller is flexible, and can be tailored for use in other applications.

Small and compact, the powerful but lightweight the SDB Controller will drive a motor up to 1 hp.



Key Features

- DC Brushless (DCBL) motor control
- Variable speed, sensorless motor drive
- DSP servo control
- Proven, two-loop state-of-the-art all digital velocity servo control
- PID algorithms
- Built-in-test (BIT) diagnostics
- Proven low power bias supply
- Pulse Width Modulated PWM motor and heater drivers for optimum power conversion efficiency.
- State-of-the-art motor drive circuits using Isolated Gate Bipolar Transistors (IGBTs)
- Three heater controls.
- Single solenoid valve control.
- Sensor interfaces for measuring pressure and temperature
- Motor output power – up to 800 VA, 1100 VA peak
- MISRA-C Software
- Hardware based over-current, over-temperature and over-voltage safety features
- Variable input power – three phase 115 VAC with passive power factor correction
- 270 VDC
- RS422 Serial Data Bus
- Weight – 5.6 lbs
- Size: 3.4" x 5.0" x 10.0"



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**WHEN IT COMES TO
ELECTRONIC CONTROL SYSTEMS
WE'RE IN CONTROL**