

High Power Sensorless BLDC Motor Digital Speed Controller

Description:

Sensitron, a price performance leader in power management and motor control technology, now offers the *SEC Series* of high power sensorless BLDC motor digital speed controllers. Designed for rugged high reliability and industrial motor control applications, the controller utilizes a space vector modulation control design for maximum utilization of the DC bus voltage that provides smooth torque control. The enclosure is available with military circular connectors and will meet various environmental standards for harsh environments such as IP67.

Features:

- ✓ Sinusoidal Sensorless Speed Control
- ✓ EMI to MIL STD461
- ✓ IP and Nema rated enclosures available
- ✓ MIL STD circular connectors
- ✓ Power conditioning and DC Bus Filtering
- ✓ Vector Drive FOC with Space Vector PWM
- ✓ Available Power stages use IGBT's rated to 1200V or
- ✓ MOSFET's rated to 600V
- ✓ 50A peak phase, 800V operation
- ✓ 100A peak, 28V operation
- ✓ Top speed of 74,000+ RPM; 4 pole motor
- ✓ Re-configurable firmware
- ✓ Isolated RS232 interface
- ✓ CAN 2.0 compliant SAE J1939 available
- ✓ Integrated phase current sensors bus voltage sensor



Typical Applications:

- ✓ Military Ground Vehicles
- ✓ Industrial Equipment
- ✓ Heavy Duty Vehicles
- ✓ Lifts and Compressors

Part Number: <i>SEC Series</i>	Recommended Operating DC Bus Supply Voltage	Absolute Peak DC Bus Voltage	Recommended RMS Output Motor Current	Peak Over Current Shutdown Protection	Design Peak Output Current
SECV6G080-120-167	600	1200	40	75	85
SECV6G120-060-167	300	600	40	100	120
SECV6M120-025-167	120	250	60	100	120
SECV6M150-010-167	50	100	60	120	150

About Sensitron:

Sensitron is a leading manufacturer of high reliability power electronic solutions including motor controllers, smart power management and conversion, diodes and voltage protection components and embedded boards. Sensitron has over 40 years heritage of serving the complete spectrum of reliability markets including space, aerospace, and defense.
<http://www.sensitron.com>