



FOR IMMEDIATE RELEASE Munich, Germany –
March 29, 2004 - Axiomatic Technologies announced
today the release of a Brushless DC motor controller as
part of their power products line.

Features:

- Drives three phase Permanent Magnet Brushless DC motors rated up to 10 A (other ratings on request)
- Bridge-type driver uses Pulse Width Modulation to control speed
- Accepts 8...36VDC supply power and provides transient surge and reverse polarity protection
- Can provide motor speed control through Back EMF detection and analysis (analog measurement)
- Can interface to motors with an integral position sensor such as a three Hall Effect Commutation Sensor placed in the line inverter input of the motor or an Encoder (Many types of encoders are supported.)
- Torque control can be provided with a phase current sensing circuit on request (motor specs must be provided)
- Additional external closed loop inputs on request (servo applications)
- Speed command input is user selectable through software configuration.
 - a digital input from a switch or other source;
 - 0-5VDC, potentiometer, 0-10VDC, 0-20 mA or 4-20 mA analog input for machine controls;
 - PWM signal input (0-10kHz, 0-100%) for interface to a PLC or engine control module (ECM);
 - RPM speed sensor input;
 - or a time interval signal (sensor or switch).
- Second optional input available for direction control, stop/start command or other digital input
- Alarm output (0-5VDC, 5 kOhm output impedance) is optional (either optional input per above or alarm output, not both are available)
- Integral fault detection circuit
- DSP based for high resolution control and minimized control loop delays
- User programmable for velocity, acceleration and torque limits, directional, dynamic or static braking capability and other variables
- Commutator setup and configuration through RS-232 (CAN bus 2.0B on request)
- On-board temperature sensor for diagnostic purposes
- Compact size high temperature nylon housing with an IP67 rating and watertight plug-in connections
- Suitable for moist, high shock and vibration environments
- Operational from -40 to 85°C



Axiomatic is exhibiting the motor controller and other electronic controls for construction equipment and mining applications at **BAUMA on March 29-April 4, 2004 in Munich Germany, Hall A3, Booth 557/658.**

Applications:

- Drives a BLDC Pump Motor
- Cooling applications
- Fuel cells, material handling equipment, electric vehicles
- Servo applications in industrial motion control (on request)
- Medical – surgical hand tools

For more information, contact:

Amanda Wilkins, TEL: 905-602-9270 x224 Email: amanda.wilkins@axiomatic.com

In Europe:
Axiomatic Technologies Oy
Hepolamminkatu 36 C 3
33720 TAMPERE - Finland
Tel. +358 3 3595 600
Fax. +358 3 3595 660
www.axiomatic.com

In North America:
Axiomatic Technologies Corporation
5915 Wallace Street
Mississauga, ON Canada L4Z 1Z8
Tel. +001 905 602 9270
Fax. +001 905 602 9279
www.axiomatic.com