

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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MFM Technology, Inc.

contents

- Corporate
- Products
- Customs
- Support
- Technical
- Free stuff
- Opportunities

Best viewed with

at 640x480 resolution

Brushless Servo Amplifiers

BDC 0251 and BDC 0261

Models BDC 0251/61 are PWM brushless, four quadrant, Servo amplifiers capable of driving three phase WYE or DELTA wound brushless DC servomotors.

They can be configured to command motor current/ transconductance mode-or motor velocity.

They have a high band width current loop and power FET output devices operating at 20 KHz pulse width modulation (PWM) for optimum drive circuit efficiency.

The BDC 0251/61 amplifiers provide continuous rated torque from 2 in.lb. to 13 in.lb. and peak torques from 5.6 in.lb. to 24 in.lb. when used with MFM Technology NM23 and NM34 brushless servomotors.

	BDC 0251	BDC 0261
Supply Voltage	24 to 60V DC	80 to 160 DC
Continuous Current Rating	8 amps.	*5/10 amps.
Peak Current Rating	12 amps.	*12/20 amps.

* Higher current rating available with optional fan.

BDC 3000 and BDC 4000

The BDC 3000 and 4000 are PWM transconductance brushless servo amplifiers that accept an analog +/- 10 volt command signal. The amplifiers will drive a three phase WYE or DELTA wound brushless DC motor. They can be configured to command motor current (transconductance mode) or motor speed (using an on-board closed loop velocity control circuit).

They have internal regulated supplies to create all DC voltages. The output stage is a high efficiency, 20 kHz pulse width modulated (PWM) power FET or IGBT based amplifier.

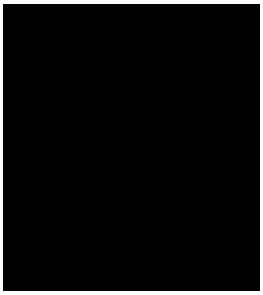
The BDC 3000 and 4000 are available in two configurations; six-step (trapezoidal) or sine wave drive. The amplifier powers the encoder, receives the A, B and Index signals and supplies them to the host system.

The sine wave drive is available as either encoder (together with Hall commutation signals) or resolver based. Both of these feedback methods provide information for commutation, shaft velocity and position and the generation of sinusoidal, three phase current.

A resolver based version is also available which has an emulated 1024 PPR encoder feedback signal (A, B, and Index) instead of the 12 bit output.

	BDC 3000	BDC 4000
Supply Voltage	115-240 VAC	208 VAC
Phase	Single	Three
Cycles	50/60 Hz.	50/60 Hz.
Continuous Current Rating	10 amps.	20-50 amps.
Peak Current Rating	20 amps.	50-100 amps.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



All systems are warrantied for 12 consecutive months from the original shipment date.

For more information please mail to sales@mfmtech.com or contact MFM directly at 1-800-MFMOTOR.

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