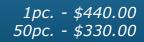


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BLuDC4-Si

Si Programmable Servo Drive





Product **Features**

- 100 lines of icon based program capability
- *Si is heralded for its programming ease*
- Animation mode displays operation in real time great for debugging
- 15 digital inputs, 7digital outputs, all optically isolated
- RS232 cable and all mating connectors are included
- Sinusoidal Commutation



Description

The BLuDC series servo drives are suitable for a wide range of motion applications. They are built around a powerful digital signal processor coupled to an efficient MOSFET PWM amplifier. The BLuDC drives include up to 22 optically isolated I/O points plus analog inputs. A sophisticated, yet easy to tune position loop has independent digital settings for proportional, integral and derivative gains plus velocity feedback and velocity and acceleration feedforward.

All BLuDC drives are capable of running brushless, brushed, and linear servo motors. A timing wizard automatically configures the encoder and commutation timing for virtually any brushless or brushed DC motor. Tuning is easy with our Quick Tuner[™] software, featuring a built-in digital oscilloscope

Specifications

Model Number	BLuDC4-Si
Part Number	5000-091
Supply Voltage	24-48 VDC
Supply Voltage Type	DC
Control Modes	Si Programming
Output Current, Continuous	4.5 A rms
Output Current, Peak	13.5 A rms
Communication Ports	RS-232RS-485
Feedback	Halls + Incremental encoder
Setup Method	Software setup
Digital Inputs	15
Digital Outputs	7
Analog Inputs	1 differential or 2 single-ended, +/-10volts, 13bits differential
Dimensions	4.60 x 2.75 x 1.5 (w/ standoffs) inches
Weight	3.1 oz
Operating Temperature Range	NA
Ambient Temperature Range	0 to 40 °C
Ambient Humidity	90% max, non-condensing
Status LEDs	1 red, 1 green
Circuit Protection	 Short circuit Over-voltage Under-voltage Over-temp

Software

Software Downloads	 DSP Firmware Downloader Si Firmware Downloader Si Programmer[™]
Sample Code	There are no sample code documents at this time.

Manuals	BLUDC-Si_Hardware_Manual.pdf
Datasheet	BLuDC Datasheet.pdf
2D Drawing	BLuDC4.pdf BLuDC4_noIO_3D.pdf
3D Drawing	BLuDC_w_EXT_I_O.igs
Speed-Torque Curves	There are currently no Speed-Torque Curves documents available for this product.
Agency Approvals	There are no related agency approval documents at this time.
Application Notes	APPN0017 Wiring-integral-holding-brakes.pdf APPN0016 Simple-25-pin-mating-connections.pdf APPN0015 Make-a-serial-programming-cable.pdf

Pricing

	BLuDC4-Si Part No. 5000-091
1pc.	\$440.00
25pc.	\$378.40
50pc.	\$330.00
100pc.	Contact us for 100+ piece pricing.