

## BLuAC5-S

Digital Servo Drive

1pc. - \$940.00  
50pc. - \$705.00



### Product Features

- P&D, torque mode. velocity mode
- 7 digital INs, 3 digital OUTs, all optically isolated
- 2 analog inputs, +/- 10 volt range
- Built-in 24vdc supply for I/O circuitry
- 50 watts built-in regeneration, up to 2KW external capability
- 32 Axis multi-drop capability
- compatible with external motion controllers
- RS232 cable and all mating connectors are included
- Sinusoidal Commutation



### Description

The BLuAC5 servo drive provides a compact, reliable solution for a wide range of motion applications in a variety of industries. The BLuAC5 servo drive is designed to offer excellent performance coupled with hardware and software features that make it easy to integrate, use and maintain.

The BLuAC5 features a powerful digital signal processor (DSP) coupled with an efficient IGBT PWM amplifier. When combined with the BLuAC5's sophisticated, yet easy to tune position loop and velocity and acceleration feed-forward, a system capable of extremely high performance assures success in the most demanding applications.

All BLuAC5 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

|                                    |                                                                                                                                                                            |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model Number</b>                | BLuAC5-S                                                                                                                                                                   |
| <b>Part Number</b>                 | 5000-101                                                                                                                                                                   |
| <b>Supply Voltage</b>              | 95-260 VAC                                                                                                                                                                 |
| <b>Supply Voltage Type</b>         | AC                                                                                                                                                                         |
| <b>Control Modes</b>               | <ul style="list-style-type: none"> <li>• Step &amp; Direction</li> <li>• Analog Torque / Velocity</li> <li>• Streaming Commands</li> <li>• SiNet Hub Compatible</li> </ul> |
| <b>Output Current, Continuous</b>  | 5.0 A rms                                                                                                                                                                  |
| <b>Output Current, Peak</b>        | 15.0 A rms                                                                                                                                                                 |
| <b>Communication Ports</b>         | <ul style="list-style-type: none"> <li>• RS-232</li> <li>• RS-485</li> </ul>                                                                                               |
| <b>Feedback</b>                    | Halls + Incremental encoder                                                                                                                                                |
| <b>Setup Method</b>                | Software setup                                                                                                                                                             |
| <b>Digital Inputs</b>              | 7                                                                                                                                                                          |
| <b>Digital Outputs</b>             | 3                                                                                                                                                                          |
| <b>Analog Inputs</b>               | 1 differential or 2 single-ended, +/-10volts, 13bits differential                                                                                                          |
| <b>Dimensions</b>                  | 7.8 x 4.8 x 2.7 inches                                                                                                                                                     |
| <b>Weight</b>                      | 35.1 oz                                                                                                                                                                    |
| <b>Operating Temperature Range</b> | NA                                                                                                                                                                         |
| <b>Ambient Temperature Range</b>   | 0 to 40 °C                                                                                                                                                                 |
| <b>Ambient Humidity</b>            | 90% max, non-condensing                                                                                                                                                    |
| <b>Status LEDs</b>                 | 7 segment display                                                                                                                                                          |
| <b>Circuit Protection</b>          | <ul style="list-style-type: none"> <li>• Short circuit</li> <li>• Over-voltage</li> <li>• Under-voltage</li> <li>• Over-temp</li> </ul>                                    |

## Software

|                           |                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Software Downloads</b> | <ul style="list-style-type: none"> <li>• <a href="#">DSP Firmware Downloader</a></li> <li>• <a href="#">Quick Tuner™</a></li> <li>• <a href="#">SCL Utility</a></li> </ul> |
| <b>Sample Code</b>        | <ul style="list-style-type: none"> <li>• <a href="#">scldemo.zip</a></li> </ul>                                                                                            |

## Downloads

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Manuals</b>             |  <a href="#">BLuAC5 S Q Hardware manual 920-0049.pdf</a><br> <a href="#">Host Command Reference Rev I.pdf</a>                                                                                                                                                                                                                                                                                                               |
| <b>Datasheet</b>           |  <a href="#">Servo-Products-Datasheet-925-0008.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>2D Drawing</b>          |  <a href="#">BLuAC5 Assembly.pdf</a><br> <a href="#">BLuAC5 3D.pdf</a>                                                                                                                                                                                                                                                                                                                                                      |
| <b>3D Drawing</b>          |  <a href="#">BLuAC5 SimpleModel.igs</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Speed-Torque Curves</b> | There are currently no Speed-Torque Curves documents available for this product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Agency Approvals</b>    | There are no related agency approval documents at this time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Application Notes</b>   |  <a href="#">APPN0018 EZ-Series-Touchpanel-HMI.zip</a><br> <a href="#">APPN0017 Wiring-integral-holding-brakes.pdf</a><br> <a href="#">APPN0016 Simple-25-pin-mating-connections.pdf</a><br> <a href="#">APPN0015 Make-a-serial-programming-cable.pdf</a> |

## Pricing

|               | <b>BLuAC5-S</b><br>Part No. 5000-101               |
|---------------|----------------------------------------------------|
| <b>1pc.</b>   | \$940.00                                           |
| <b>25pc.</b>  | \$808.40                                           |
| <b>50pc.</b>  | \$705.00                                           |
| <b>100pc.</b> | <a href="#">Contact us</a> for 100+ piece pricing. |