

SVAC3-S-E220

Digital Servo Drive w/ Ethernet



Product Features

- Digital servo drive in a compact package
- DSP-based current control
- Operates from 220 VAC
- Provides motor current up to 1.8 A rms continuous, 3.75 A rms peak
- Fast 10/100 Ethernet for programming and communications
- Three pulse-based control modes: step & direction, A/B quadrature, CW/CCW pulse
- Velocity (oscillator) control mode with sophisticated joystick operation
- Streaming serial command mode (SCL) for commands sent from a host controller
- UDP & TCP support
- 4 digital inputs, 2 digital outputs, all optically isolated
- 1 analog input, +/-10 volt range
- Jerk filter for S-curve acceleration ramps

Description

NOTE: This drive is not available for new applications. Please consider the [SV2B3-Q-DE](#) servo drive as a replacement.

The SVAC3-S-E220 is a compact and cost-effective servo drive that is compatible with a variety of servo motors and a great choice for many OEM applications. Its all-digital design and DSP-based current control allow for smooth motion and a quick response from the specially matched set of Applied Motion motors available with it. Power to the drive comes from single-phase 220 VAC and the drive can output up to 1.8 A rms continuous, 3.75 A rms peak to the servo motor. The drive also has built-in protection features like over-voltage, over-temperature, and over-current, which prevent damage to the drive while running in adverse conditions.

The SVAC3-S-E220 can operate in analog torque/velocity, pulse & direction, and streaming serial (SCL) control modes. Select the control mode, tune the servo motor and configure the drive using the [Quick Tuner™](#) software.




For connecting to external devices such as limit switches, proximity or photoelectric sensors, PLC I/O, lamps, and other devices, the drive comes with 4 digital inputs, 2 digital outputs, and 1 analog input. The drive also features an Ethernet port for configuration and communications. The Ethernet port is fast 10/100 Mbit, and the drive supports both TCP and UDP communication protocols.

This servo motor drive is UL Recognized (File No. E332730), CE approved, and RoHS compliant.

Specifications

Model Number:	SVAC3-S-E220
Part Number:	5000-227
Supply Voltage:	108-242 VAC
Supply Voltage Type:	AC
Control Modes:	Step & Direction Analog Torque / Velocity Streaming Commands
Output Current, Continuous:	1.8
Output Current, Peak:	3.75
Communication Ports:	Ethernet
Feedback:	Halls + Incremental encoder
Setup Method:	Software setup
Digital Inputs:	4
Digital Outputs:	2
Analog Inputs:	1 single-ended
Dimensions:	5.5 x 4.5 x 2.0 inches
Weight:	22.4 oz
Operating Temperature Range:	0 to 70 °C
Ambient Temperature Range:	0 to 55 °C
Ambient Humidity:	90% max, non-condensing
Status LEDs:	1 red, 1 green
Circuit Protection:	Short circuit Over-voltage Under-voltage Over-temp

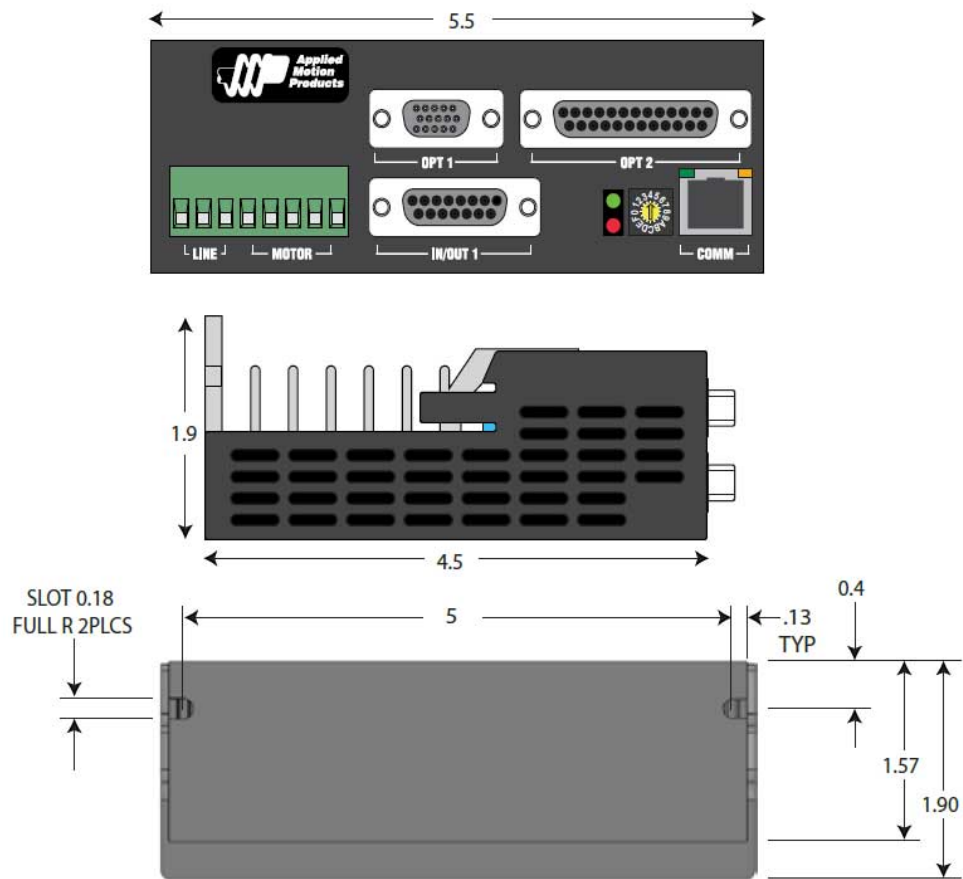
Software

Software:	ARM Firmware Downloader DSP Firmware Downloader Quick Tuner™ SCL Utility
Sample Code:	 C_sharp_UDP_example.zip  VB6_UDP_example.zip  VB6_TCP_example.zip

Downloads

Manuals:	 SVAC3_Hardware_Manual_920-0028D.pdf  SVAC3 QuickSetup Guide_920-0052B.pdf  eSCL_Comm_Reference.pdf  Host-Command-Reference_920-0002R.pdf
Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/SVAC3-S-E220.pdf
Family Datasheet:	 Servo-Products-Datasheet-925-0008.pdf
2D Drawing:	 SVAC3.pdf
3D Drawing:	 SVAC3.igs
Speed-Torque Curves:	 SVAC3_speed-torque.pdf
Agency Approvals:	 STAC5_SVAC3_CE_DOC.PDF
Application Notes:	 APPN0026B-LabVIEW-communication-using-streaming-commands.zip

Mechanical Outline



Products in the Series SVAC3 Servo Drives

There are no Servo Drives that match the selected criteria. Please try again.