

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

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.

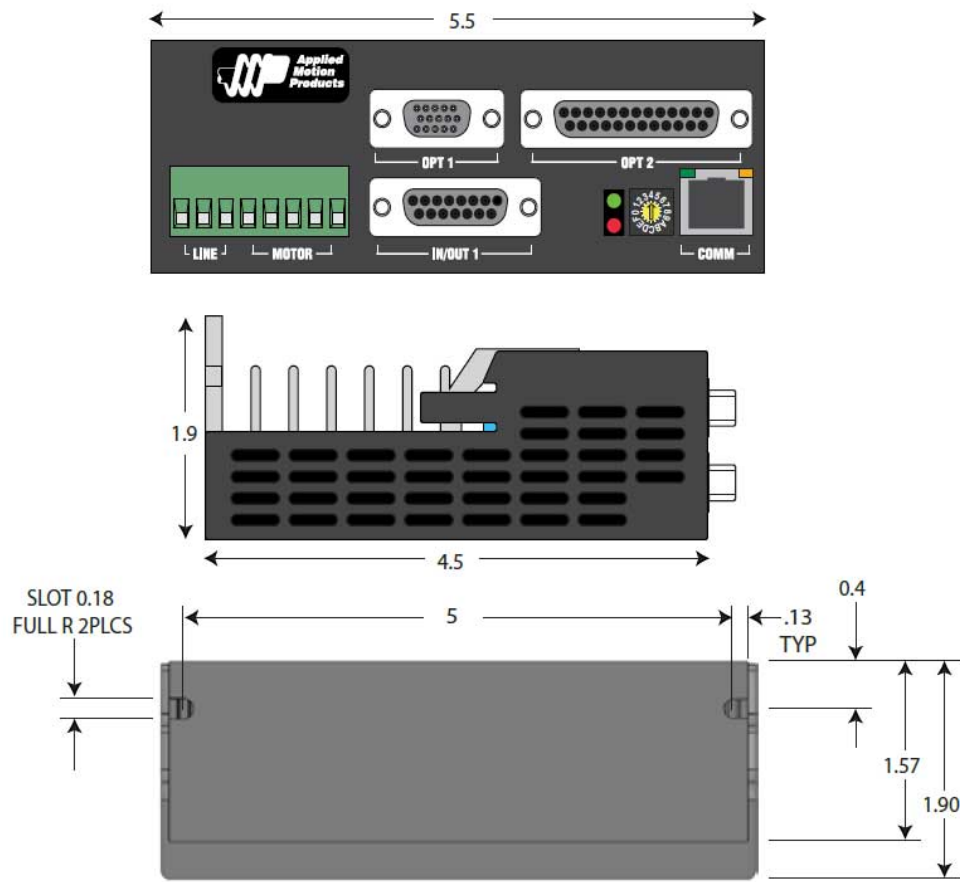
Specifications

Model Number	SVAC3-S-E220
Part Number	5000-227
Supply Voltage	108-242 VAC
Supply Voltage Type	AC
Control Modes	<ul style="list-style-type: none">• Step & Direction• Analog Torque / Velocity• Streaming Commands
Output Current, Continuous	1.8 A rms
Output Current, Peak	3.75 A rms
Communication Ports	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Short circuit• Over-voltage• Under-voltage• Over-temp

Software

Software Downloads	<ul style="list-style-type: none">• ARM Firmware Downloader• DSP Firmware Downloader• Quick Tuner™• SCL Utility
Sample Code	<ul style="list-style-type: none">• C_sharp_UDP_example.zip• VB6_UDP_example.zip• VB6_TCP_example.zip

Mechanical Outline



Products in the Series SVAC3 Servo Drives

Model Number	Supply Voltage	Control Modes	Output Current, Continuous (A rms)	Output Current, Peak (A rms)	Communication Ports
SVAC3-IP-E120	108-132 VAC	Streaming Commands Q Programming EtherNet/IP	3.5	7.5	Ethernet EtherNet/IP
SVAC3-IP-E220	108-242 VAC	Streaming Commands Q Programming EtherNet/IP	1.8	3.75	Ethernet EtherNet/IP
SVAC3-Q-E120	108-132 VAC	Streaming Commands Analog Positioning Encoder Following Q Programming	3.5	7.5	Ethernet
SVAC3-Q-E220	108-242 VAC	Streaming Commands Analog Positioning Encoder Following Q Programming	1.8	3.75	Ethernet
SVAC3-S-E120	108-132 VAC	Step & Direction Analog Torque / Velocity Streaming Commands	3.5	7.5	Ethernet
SVAC3-S-E220	108-242 VAC	Step & Direction Analog Torque / Velocity Streaming Commands	1.8	3.75	Ethernet