

## SVAC3-Q-E120

Q Programmable Servo Drive w/ Ethernet

1pc. - 726.00

50pc. - 544.50



### Product Features

- Programmable digital servo drive in a compact package
- DSP-based current control
- Operates from 120 VAC
- Provides motor current up to 3.5 A rms continuous, 7.5 A rms peak
- Fast 10/100 Ethernet for programming and communications
- 744 lines of stored Q program capability
- Math calculations using analog and digital parameters
- Supports all SVAC3-S control modes as well
- UDP & TCP support
- 12 digital inputs, 6 digital outputs, all optically isolated
- 1 analog input, +/-10 volt range
- Jerk filter for S-curve acceleration ramps



## Description

The SVAC3-Q-E120 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 120 VAC and the drive can output up to 3.5 A rms continuous, 7.5 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-Q-E120 can operate in all of the same control modes as a SVAC3-S drive (analog torque/velocity, pulse & direction, streaming commands), plus it has the ability to run stand-alone Q programs stored in non-volatile memory. Q programs are created using the [Q Programmer™](#) software, and provide multi-tasking, math functions, conditional processing, data register manipulation, and more features in a robust yet simple text-based programming language. Initial setup of the drive, including selecting the control mode, tuning the servo motor and configuring the drive is done with 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 12 digital inputs, 6 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

<b>Model Number:</b>	SVAC3-Q-E120
<b>Part Number:</b>	5000-224
<b>Supply Voltage:</b>	108-132 VAC
<b>Supply Voltage Type:</b>	AC
<b>Control Modes:</b>	Streaming Commands Analog Positioning Encoder Following Q Programming
<b>Output Current, Continuous:</b>	3.5
<b>Output Current, Peak:</b>	7.5
<b>Communication Ports:</b>	Ethernet
<b>Feedback:</b>	Halls + Incremental encoder
<b>Setup Method:</b>	Software setup
<b>Digital Inputs:</b>	12
<b>Digital Outputs:</b>	6
<b>Analog Inputs:</b>	1 single-ended
<b>Dimensions:</b>	5.5 x 4.5 x 2.0 inches
<b>Weight:</b>	22.4 oz
<b>Operating Temperature Range:</b>	0 to 70 °C
<b>Ambient Temperature Range:</b>	0 to 55 °C
<b>Ambient Humidity:</b>	90% max, non-condensing
<b>Status LEDs:</b>	1 red, 1 green
<b>Circuit Protection:</b>	Short circuit Over-voltage Under-voltage Over-temp

## Software

<b>Software:</b>	<a href="#">ARM Firmware Downloader</a> <a href="#">DSP Firmware Downloader</a> <a href="#">Q Programmer™</a> <a href="#">Quick Tuner™</a> <a href="#">SCL Utility</a>
<b>Sample Code:</b>	 <a href="#">C_sharp_UDP_example.zip</a>  <a href="#">VB6_UDP_example.zip</a>  <a href="#">VB6_TCP_example.zip</a>

## Downloads

<b>Manuals:</b>	 <a href="#">SVAC3_Hardware_Manual_920-0028.pdf</a>  <a href="#">SVAC3_QuickSetupGuide_920-0052.pdf</a>  <a href="#">Host Command Reference Rev I.pdf</a>  <a href="#">eSCL_Comm_Reference.pdf</a>
<b>Datasheet:</b>	<a href="http://s3.amazonaws.com/applied-motion-pdf/SVAC3-Q-E120.pdf">http://s3.amazonaws.com/applied-motion-pdf/SVAC3-Q-E120.pdf</a>
<b>Family Datasheet:</b>	 <a href="#">Servo-Products-Datasheet-925-0008.pdf</a>
<b>2D Drawing:</b>	 <a href="#">SVAC3.pdf</a>
<b>3D Drawing:</b>	 <a href="#">SVAC3.igs</a>
<b>Speed-Torque Curves:</b>	 <a href="#">SVAC3_speed-torque.pdf</a>
<b>Agency Approvals:</b>	 <a href="#">STAC5_SVAC3_CE_DOC.PDF</a>
<b>Application Notes:</b>	 <a href="#">APPN0026B-LabVIEW-communication-using-streaming-commands.zip</a>  <a href="#">APPN0020-Maple-Systems-with-Ethernet-Drive.zip</a>  <a href="#">APPN0019_Analog-positioning-using-Q-program.zip</a>  <a href="#">APPN0016_Simple-25-pin-mating-connections.pdf</a>

## Pricing

SVAC3-Q-E120 Part No. 5000-224	
1pc.	\$726.00
25pc.	\$624.36
50pc.	\$544.50
100pc.	<a href="#">Request a Quote</a> for 100+ piece pricing.

## Mechanical Outline

