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Product Datasheet

www.Applied-Motion.com

SVAC3-S-E120

Digital Servo Drive w/ Ethernet

1pc. - 471.00
50pc. - 353.25



Product Features

- *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*
- *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-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-S-E120 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-E120
Part Number:	5000-226
Supply Voltage:	108-132 VAC
Supply Voltage Type:	AC
Control Modes:	Step & Direction Analog Torque / Velocity Streaming Commands
Output Current, Continuous:	3.5
Output Current, Peak:	7.5
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_920-0028.pdf SVAC3_QuickSetupGuide_920-0052.pdf Host Command Reference Rev I.pdf eSCL_Comm_Reference.pdf
Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/SVAC3-S-E120.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:	APPN0035_ServoSET-Drive-Setup-with-QuickTuner.pdf APPN0026B-LabVIEW-communication-using-streaming-commands.zip

Pricing

	SVAC3-S-E120 Part No. 5000-226
1pc.	$471.00
25pc.	$405.06
50pc.	$353.25
100pc.	Request a Quote for 100+ piece pricing.

2D Drawings

Mechanical Outline

