Applied Motion Products, Inc.
404 Westridge Dr.
Watsonville, CA 95076, USA

1-800-525-1609
Tel (831) 761-6555
Fax (831) 761-6544

Product Datasheet

www.Applied-Motion.com

SV7-IP-EE

Q Programmable Servo Drive w/ EtherNet/IP

1pc. - 597.00
50pc. - 447.75

Product Features

- *Programmable digital servo drive with built-in EtherNet/IP industrial networking*
- *DSP-based current control, sinusoidal commutation and jerk filter*
- *Operates from 24-80 VDC*
- *Provides motor current up to 7.0 A rms continuous, 14.0 A rms peak*
- *EtherNet/IP communication protocol for network communications with PLCs and other devices*
- *Supports all SV7-S and SV7-Q control modes as well*
- *8 digital inputs, 4 digital outputs, all optically isolated*
- *2 analog inputs, +/-10 volt range*
- *Fast 10/100 Ethernet for programming and communications*
- *Ethernet TCP & UDP support*

Description

The SV series servo drives are suitable for a wide range of motion applications. They are built around a powerful digital signal processor coupled to an efficient MOSFET PWM amplifier. The SV drives include 12 optically isolated I/O points plus analog inputs. A sophisticated, yet easy to tune position loop has independent digital settings for proportional, integral and derivative gains plus velocity feedback and velocity and acceleration feedforward.

All SV 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

Model Number:	SV7-IP-EE
Part Number:	5000-185
Supply Voltage:	24-80 VDC
Supply Voltage Type:	DC
Control Modes:	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP
Output Current, Continuous:	7.0
Output Current, Peak:	14.0
Communication Ports:	Ethernet EtherNet/IP
Feedback:	Halls + Incremental encoder
Setup Method:	Software setup
Digital Inputs:	8
Digital Outputs:	4
Analog Inputs:	1 differential or 2 single-ended
Dimensions:	5 x 3 x 1.78 inches
Weight:	10.0 oz
Ambient Temperature Range:	0 to 40 °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 Q Programmer™ Quick Tuner™ SCL Utility
Sample Code:	C_sharp_UDP_example.zip VB6_UDP_example.zip VB6_TCP_example.zip

Downloads

Manuals:	SV7_HardwareManual_920-0012.pdf SV7-IP_QuickSetup_920-0053.pdf Host Command Reference Rev I.pdf
Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/SV7-IP-EE.pdf
Family Datasheet:	Servo-Products-Datasheet-925-0008.pdf EtherNet-IP-White-Paper_920-0050.pdf EIP_EDS_FILES.zip
2D Drawing:	SV7_simple_3D.pdf SV7_2D_Drawing.pdf
3D Drawing:	SV7-S-AE_solid.igs
Speed-Torque Curves:	SV7_speed-torque.pdf
Agency Approvals:	SV7-S_Q_Si__CE_DOC.pdf
Application Notes:	APPN0024_AOIs-for-RSLogix5000.zip APPN0023_MicroLogix-to-EtherNet-IP-drive.zip APPN0022_CompactLogix-to-EtherNet-IP-drive.zip APPN0021_5V-Keepalive-Circuit.pdf APPN0017_Wiring-integral-holding-brakes.pdf APPN0016_Simple-25-pin-mating-connections.pdf

Pricing

	SV7-IP-EE Part No. 5000-185
1pc.	$597.00
25pc.	$513.42
50pc.	$447.75
100pc.	Request a Quote for 100+ piece pricing.

2D Drawings

Mechanical Outline