

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 A rms
Output Current, Peak	14.0 A rms
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
Operating Temperature Range	NA
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 Downloads

- [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

- [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

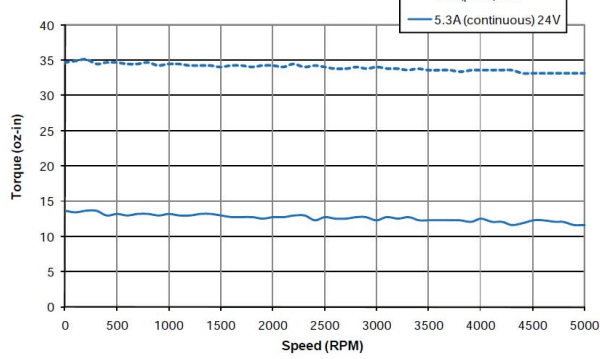
- [APPN0024 AOIs-for-RSLogix5000.zip](#)
- [APPN0023 MicroLogix-to-EtherNet-IP-drive.zip](#)
- [APPN0022 CompactLogix-to-EtherNet-IP-drive.zip](#)
- [APPN0021 5V-Keepalive-Circuit.pdf](#)
- [APPN0017 Wiring-integral-holding-brakes.pdf](#)
- [APPN0016 Simple-25-pin-mating-connections.pdf](#)

Pricing

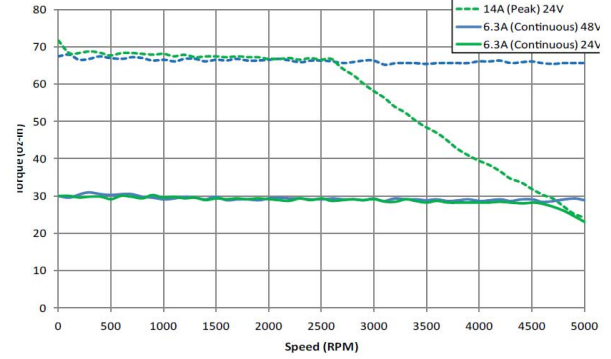
SV7-IP-EE Part No. 5000-185	
1pc.	\$597.00
25pc.	\$513.42
50pc.	\$447.75
100pc.	Contact us for 100+ piece pricing.

Torque Curves

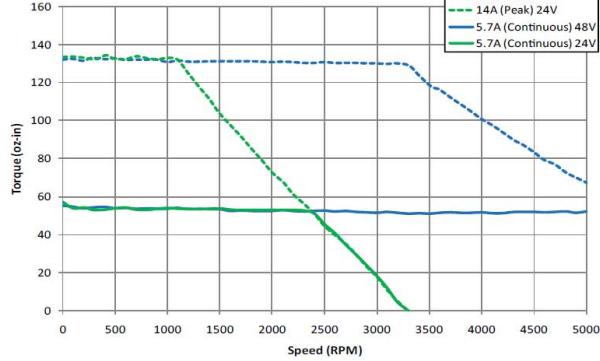
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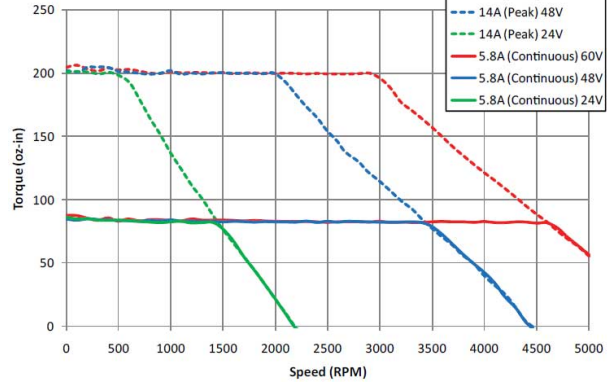
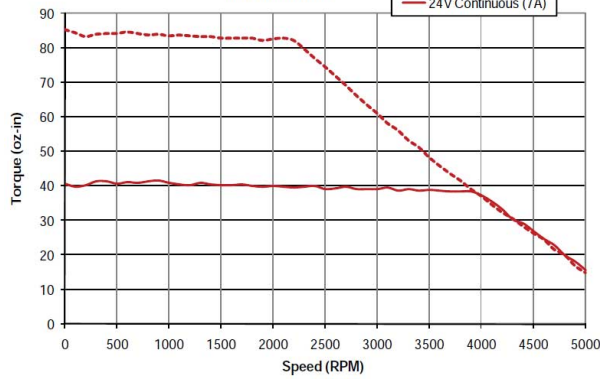
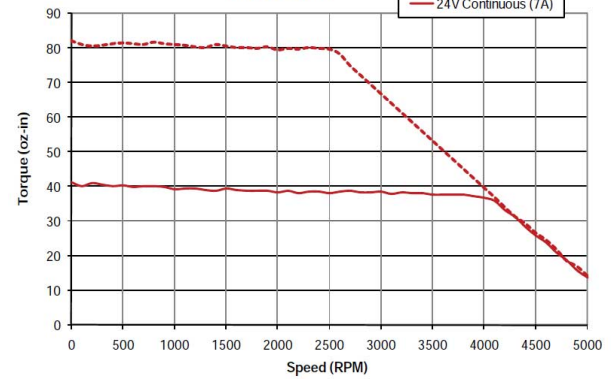
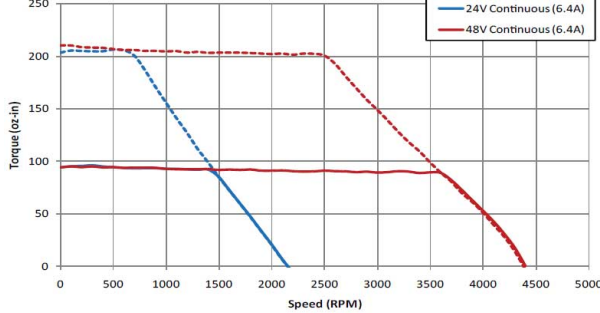
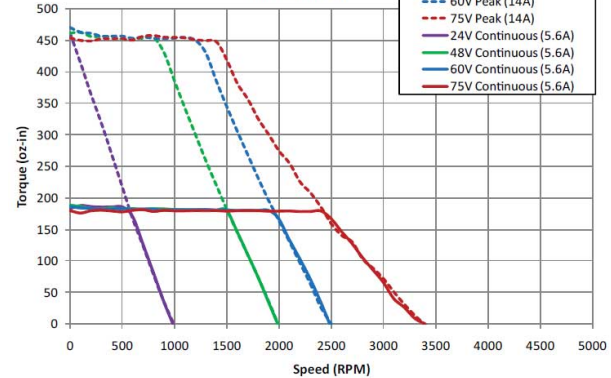
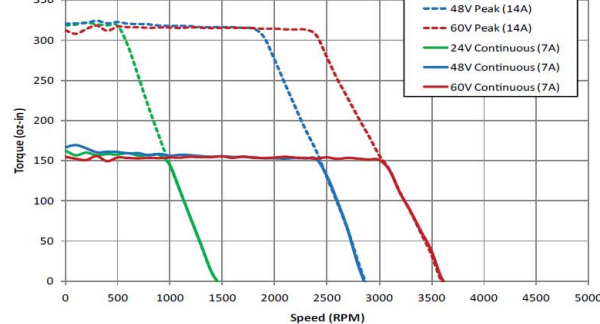
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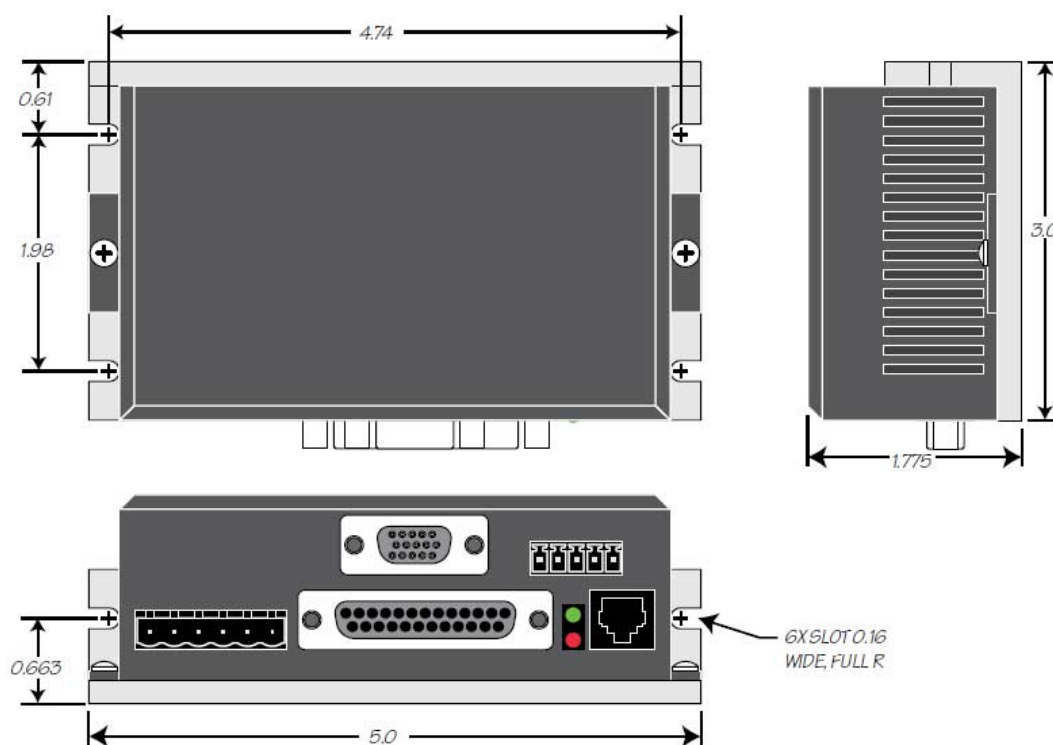
VL0200-214-B-000



V0250-214-B-000

N0100-103-A
M0100-103-3N0100-103-B
M0100-103-4N0200-104-B
M0200-104-4N0400-101-B
M0400-101-4N0400-105-B
M0400-105-4

Mechanical Outline



Products in the Series *EtherNet/IP Products*

* Closeout priced products are highlighted in green.

* Items with web only pricing are highlighted in yellow.

Model Number	Supply Voltage	Control Modes	Output Current, Continuous (A rms)	Output Current, Peak (A rms)	Communication Ports	1pc./50pc.
	12-70 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$605.00 / \$453.75
	12-70 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$495.00 / \$371.25
	12-70 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$650.00 / \$487.50
	12-70 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$540.00 / \$405.00
	12-70 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$706.00 / \$529.50
	12-70 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$551.00 / \$413.25
ST10-IP-EE	24-80 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming	NA	NA	Ethernet EtherNet/IP	\$710.00 / \$532.50

		EtherNet/IP				
ST10-IP-EN	24-80 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$659.00 / \$494.25
ST5-IP-EE	24-48 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$655.00 / \$491.25
ST5-IP-EN	24-48 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$607.00 / \$455.25
STAC5-IP-E120	94-135 VAC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$710.00 / \$532.50
STAC5-IP-E220	94-265 VAC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$710.00 / \$532.50
STAC5-IP-N120	94-135 VAC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$659.00 / \$494.25
STAC5-IP-N220	94-265 VAC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	NA	NA	Ethernet EtherNet/IP	\$659.00 / \$494.25
SV7-IP-EE	24-80 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	7.0	14.0	Ethernet EtherNet/IP	\$597.00 / \$447.75
SVAC3-IP-E120	108-132 VAC	Streaming Commands Q Programming EtherNet/IP	3.5	7.5	Ethernet EtherNet/IP	\$710.00 / \$532.50
SVAC3-IP-E220	108-242 VAC	Streaming Commands Q Programming EtherNet/IP	1.8	3.75	Ethernet EtherNet/IP	\$710.00 / \$532.50

Products in the Series *SV7 Servo Drives*

* Closeout priced products are highlighted in green.

* Items with web only pricing are highlighted in yellow.

Model Number	Supply Voltage	Control Modes	Output Current, Continuous (A rms)	Output Current, Peak (A rms)	Communication Ports	1pc./50pc.
SV7-C-CE	24-80 VDC	CANopen	7.0	14.0	RS-232 CANopen	\$585.00 / \$438.75
SV7-IP-EE	24-80 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming EtherNet/IP	7.0	14.0	Ethernet EtherNet/IP	\$597.00 / \$447.75
SV7-Q-AE	24-80 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming	7.0	14.0	RS-232	\$450.00 / \$337.50
SV7-Q-AF	24-80 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming	7.0	14.0	RS-232	\$530.00 / \$397.50
SV7-Q-EE	24-80 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming	7.0	14.0	Ethernet	\$597.00 / \$447.75
SV7-Q-RE	24-80 VDC	Streaming Commands Analog Positioning Encoder Following Q Programming	7.0	14.0	RS-232 RS-485	\$560.00 / \$420.00
SV7-S-AE	24-80 VDC	Step & Direction Analog Torque / Velocity Streaming Commands SiNet Hub Compatible	7.0	14.0	RS-232	\$422.00 / \$316.50
SV7-S-AF	24-80 VDC	Step & Direction Analog Torque / Velocity Streaming Commands	7.0	14.0	RS-232	\$478.00 / \$358.50
SV7-S-RE	24-80 VDC	Step & Direction Analog Torque / Velocity Streaming Commands	7.0	14.0	RS-232 RS-485	\$484.00 / \$363.00
SV7-Si-AE	24-80 VDC	Si Programming	7.0	14.0	RS-232	\$490.00 / \$367.50
SV7-Si-AF	24-80 VDC	Si Programming	7.0	14.0	RS-232	\$606.00 / \$454.50