

SV7-Q-RE

Q Programmable Servo Drive w/ RS-485

1pc. - 560.00
50pc. - 420.00



Product Features

- Programmable digital servo drive in a compact package
- 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
- Q Programmer™ for robust motion control programming
- 744 lines of stored Q program capability
- Math calculations using analog and digital parameters
- Supports all SV7-S control modes as well
- Compatible with many 3rd party HMIs
- 8 digital inputs, 4 digital outputs, all optically isolated
- 2 analog inputs, +/-10 volt range
- RS-232 port for programming and communications
- RS-485 port for serial networking up to 32 axes



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-Q-RE |
| Part Number: | 5000-162 |
| Supply Voltage: | 24-80 VDC |
| Supply Voltage Type: | DC |
| Control Modes: | Streaming Commands Analog Positioning Encoder Following Q Programming |
| Output Current, Continuous: | 7.0 |
| Output Current, Peak: | 14.0 |
| Communication Ports: | RS-232 RS-485 |
| 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

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|---------------------|---|
| Software: | DSP Firmware Downloader Q Programmer™ Quick Tuner™ SCL Utility |
| Sample Code: |  scldemo.zip |

Downloads

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|-----------------------------|--|
| Manuals: | SV7_HardwareManual_920-0012.pdf SV7-S_Q_QuickSetup_920-0062.pdf Host Command Reference Rev I.pdf |
| Datasheet: | http://s3.amazonaws.com/applied-motion-pdf/SV7-Q-RE.pdf |
| Family Datasheet: | Servo-Products-Datasheet-925-0008.pdf |
| 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: | APPN0026B-LabVIEW-communication-using-streaming-commands.zip APPN0019_Analog-positioning-using-Q-program.zip APPN0018_EZ-Series-Touchpanel-HMI.zip APPN0017_Wiring-integral-holding-brakes.pdf APPN0016_Simple-25-pin-mating-connections.pdf APPN0015_Make-a-serial-programming-cable.pdf |

Pricing

| SV7-Q-RE Part No. 5000-162 | |
|-------------------------------|---|
| 1pc. | \$560.00 |
| 25pc. | \$481.60 |
| 50pc. | \$420.00 |
| 100pc. | Request a Quote for 100+ piece pricing. |

Mechanical Outline

