SVAC3 Quick Setup Guide

Requirements

To begin, make sure you have the following equipment:

- A compatible servo motor.
- A small flat blade screwdriver for tightening the connectors (included).
- A personal computer running Microsoft Windows 98, NT, Me, 2000, XP, Vista, 7, 8 or 10.
- *Quick Tuner™* software (version 2.2.17 or later) available at www.applied-motion.com/products/software.
- For Q models, *Q Programmer* software (available at www.applied-motion.com).
- A CAT5 network cable (not included).
- For more detailed information, please download and read the *SVAC3 Hardware Manual*, available at www.applied-motion.com/support/manuals.

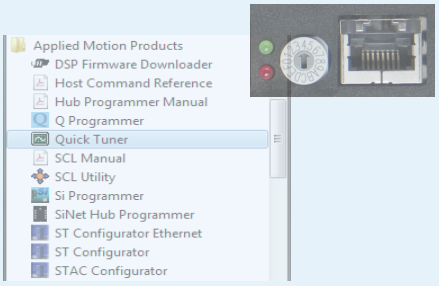
Step 1

a) Download and install the *Quick Tuner™* and, for -Q models, the *Q Programmer™* software.

b) Launch the software by clicking:
Start / Programs / Applied Motion Products / Quick Tuner

c) Connect the drive to your network or PC using a standard CAT5 cable.

d) Select an appropriate IP address using the rotary switch on the SVAC3. For more information about network configurations and IP addressing, please consult the *SVAC3 Hardware Manual.*

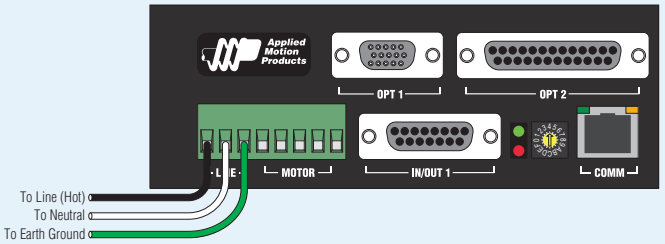


Step 2

Wire the drive to the AC power source.
(do not apply power until all connections to the drive have been made)

Note, the SVAC3-120 accepts AC voltages from 108-132 VAC, while the SVAC3-220 accepts AC voltages from 108-242 VAC.

The SVAC3-120 contains an internal 8A fast acting fuse. The SVAC3-220 contains an internal 3.5A fast acting fuse. If an external fuse is desired, we recommend a 6A fast acting fuse for the 120V SVAC3 and a 3 amp fast acting fuse for the 220V version.

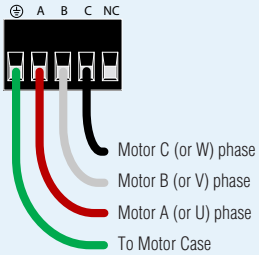


Step 3

Connect the drive to the motor. If you are using one of the recomended Applied Motion motors, connect the motor as shown.

Be sure to connect the motor case ground to the SVAC3 ground terminal. ⏚

For a non-Applied Motion Products motor, please refer to your motor specs for wiring information.

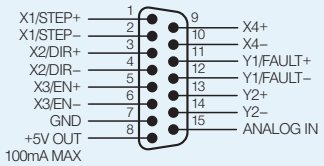


Step 4

a) Connect the I/O

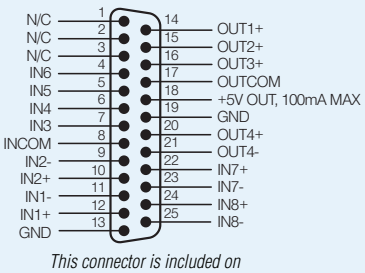
b) Connect the Encoder. For Applied Motion motors we recommend using standard encoder extension cables (BLUENC type for M series motors, 3004-230 type for V series motors) to connect the motor's encoder and Hall signals to the drive.

IN/OUT 1



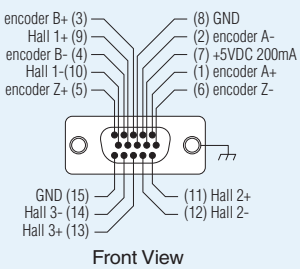
This connector is included on all models.

IN/OUT 2



This connector is included on -Q, -IP models.

ENCODER



Front View

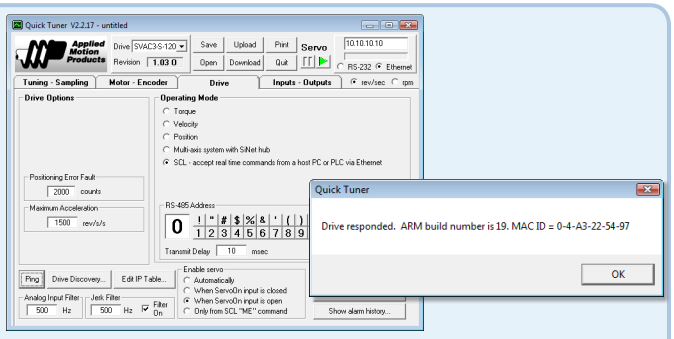
Step 5

a) Apply power to the drive.

b) Enter the proper IP address (refer to step 1d above), then select the “Drive” tab and press the “Ping” button. You should receive a response similar to that shown here.

c) Select the appropriate operating mode for your drive.

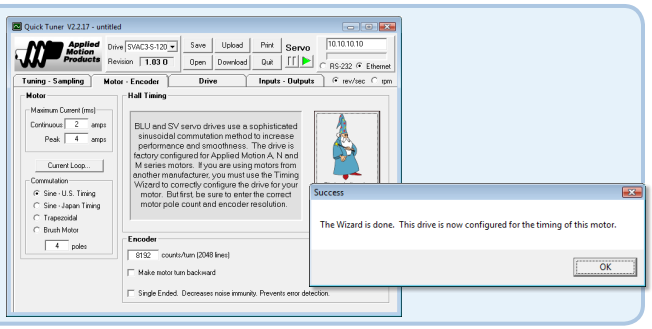
d) If using an Applied Motion servomotor, press the “Open” button, navigate to the SVAC3 folder, and select a tuning file. Select the file that most closely matches your inertia load. The file names indicate the inertia ratio for which they were optimized. For example, the file M0200-101-4-X5.svt was optimized for the M0200-101-4 motor at a 5:1 inertia ratio.



Step 6

a) Select the “Motor - Encoder” tab and confirm settings for motor maximum current and pole count, as well as the encoder resolution are correct. If you are using a non-AMP motor, these data must be obtained from your motor’s datasheet.

b) Execute the Timing Wizard, following the on-screen prompts. This will ensure that the drive can properly commutate the motor.

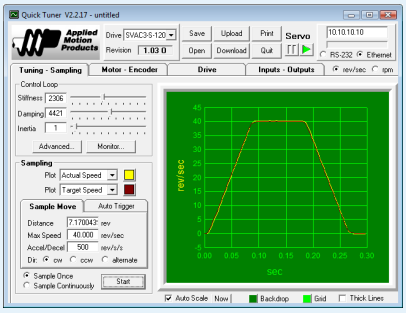


Step 7

a) Select the “Tuning - Sampling” tab.

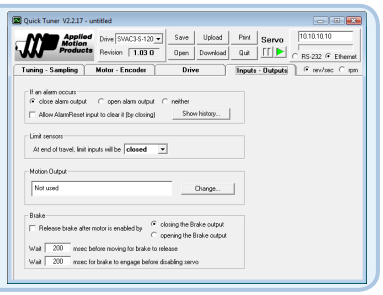
b) If a factory tuning file was used in Step 5, the system is already tuned for the specified load. If using a third-party motor, the system must be tuned manually. Consult the *Quick Tuner™* Software Manual for step-by-step tuning instructions.

The Quick Tuner™ Software Manual should be considered required reading for anyone tuning a servo system.



Step 8

Select the “Inputs - Outputs” tab, and configure any dedicated-function I/O your application may require.



Step 9

Download your settings to the drive. Your drive is now configured for use.

If you have any questions or comments, please call Applied Motion Products Customer Support: (800) 525-1609, or visit us online: www.applied-motion.com.

Applied Motion Products

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