STAC6-S/Q/Si Quick Setup Guide

Requirements

To begin, make sure you have the following equipment:

- A compatible stepper motor.
- A small flat blade screwdriver for tightening the connectors (included).
- A personal computer running Microsoft Windows 95, 98, NT, Me, 2000, XP, Vista or 7 (32- or 64-bit).
- For STAC6-Si, Si Programmer™ software, available at: http://www.applied-motion.com/products/software
- An Applied Motion programming cable (included).
- For more detailed information, please download and read the STAC6 Hardware Manual, available at http://www.applied-motion.com/support/manuals.

Step 1

Wire the drive to the AC power source.  
(apply power only after step 4 is completed and the programming cable is connected)

STAC6x drives accept 94-135VAC  
STAC6x-220 drives accept 94-265VAC

If using an external fuse, we recommend the following fast-acting fuses:

STAC6x: 6 amp  
STAC6x-220: 5 amp

Step 2

Wire the motor. See the STAC6 Hardware Manual for further details.

Series connection

Use with all STAC6-220 drives and the following motors:

- HT23-552, HT23-553, HT23-554
- HT34-495, HT34-496, HT34-497

Use with STAC6 (120) drives and the following motors:

- HT23-548, HT23-549, HT23-550
- HT34-488, HT34-489, HT34-490

Parallel connection

Do not use parallel connection with STAC6-220 drives. Use with STAC6 (120) drives and the following motors:

- HT23-552, HT23-553, HT23-554
- HT34-495, HT34-496, HT34-497
Step 3

Wire the drive’s I/O (optional, dependent upon drive type)

**IN/OUT 1 Connector**

- X COMMON
- X7 / CW Limit
- X6 / CCW Limit XG
- X4 / Alarm Reset
- X3 / Enable
- X COMMON
- X2 / DIR-
- X2 / DIR+
- X1 / STEP -
- X1 / STEP +
- GND

**IN/OUT 2 Connector**

- Y COMMON
- Y3 / FAULT
- Y2 / MOTION
- Y COMMON
- +SV OUT
- GND

**Connect the Encoder (optional)**

- encoder B+ (3)
- NC (9)
- encoder B- (4)
- NC (10)
- encoder Z+ (5)
- encoder Z- (6)
- +S+ OUT

Step 4

a) Download and install the appropriate software for your drive.

For STAC6-S, STAC6-S-220, STAC6-Q and STAC6-Q-220 drives you will need the ST Configurator™ software. For Q drives note that the latest version of ST Configurator™ comes with the Q Programmer™ software built in.

For STAC6-Si and STAC6-Si-220 drives you will need the Si Programmer™ software.

b) Connect the drive to your PC using the supplied programming cable. If your PC does not have a serial port you will need a USB to serial port (RS-232) adapter.

c) Launch the software and select the correct COM port.

d) Apply power to the drive.

e) Use the software to configure and program the drive for your application. ST Configurator™ and Si Programmer™ come with built-in Help where you’ll find additional instructions for using the software.