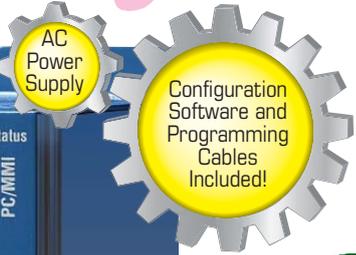


HIGH PERFORMANCE STEPPER DRIVES WITH AC POWER SUPPLY



STAC6 Series Starts at £535



Drives and Motors

- Current Output 0.5 to 6.0 A
- 90 to 135 Vac Input
- Configurator™ Configuration Software
- Configurable Idle Current Reduction
- External Control Options
- Pulse and Direction
- Analogue Command Signal
- Host Command via RS232/485
- Fault Protection:
 - Over-Voltage, Under-Voltage
 - Over-Temp
 - External Output Shorts
 - Internal Amplifier Shorts
 - Motor Regeneration

- Multi-Axis System with SiNet™ Hub
- Stand-Alone Programming on Si Model
- Microstepping Emulation: Up to 51,200 Steps/Revolution

Advanced Features

- Auto Setup Measures Motor Parameters and Configures Tuning Parameters
- Self-Test Detects Encoder and Determines Resolution; Diagnoses Miswires and Open Phases
- Torque Ripple Smoothing Assures Smoother Motion at Lower Speeds
- Command Signal Smoothing Assures Smooth Acceleration/Deceleration Ramps
- Anti-Resonance Eliminates Midrange Instability; Allows Stable Operation to 50 rps or Greater



STAC6-Si, £665, shown smaller than actual size.

STAC6-S, £535, shown smaller than actual size.

SPECIFICATIONS

POWER AMPLIFIER SECTION

Amplifier Type: MOSFET, dual H-bridge, 4 quadrant
Current Control: 4 state PWM at 20 KHz
Output Current:

STAC6: 0.5 to 6.0 A in 0.01 A increments
STAC6-220: 0.5 to 3.2 A in 0.01 A increments

DC Bus Voltage: Nominal 165 Vdc

AC Input Voltage:

STAC6: 94 to 135 Vac, 50/60 Hz
STAC6-220: 94 to 265 Vac, 50/60 Hz

Protection: Over/under-voltage, over-temp, external output shorts (phase-to-phase, phase-to-ground), internal amplifier shorts

Idle Current Reduction: Reduction to any integral percent of full-current after delay (selectable in milliseconds)

Motor Regeneration: Built-in regeneration circuit (25 W max)

CONTROLLER SECTION

Non-Volatile Storage: Configurations are stored in FLASH memory

Step and Direction Inputs: Optically Isolated: 5 to 12V; minimum pulse width = 200 ms; maximum pulse frequency = 2 MHz

Speed Range: Depends upon selected resolution; amplifier is suitable for speeds up to 133 rps

Resolution: Software selectable from 200 to 51,200 steps/rev in increments of 1 step/rev

Encoder Option: Differential line receivers suitable for 200 KHz or greater

Interface: RS232 and RS485 bus

Ambient Temperature: 0 to 55°C

Humidity: 90% non-condensing

INPUTS AND OUTPUTS

STAC6-S:

7 Digital Inputs: Two 5V, five 12 to 24V

3 Digital Outputs: 30V

2 Analogue Inputs: ±10V

STAC6-Si:

15 Digital Inputs: Two 5V, thirteen 12 to 24V

7 Digital Outputs: 30V

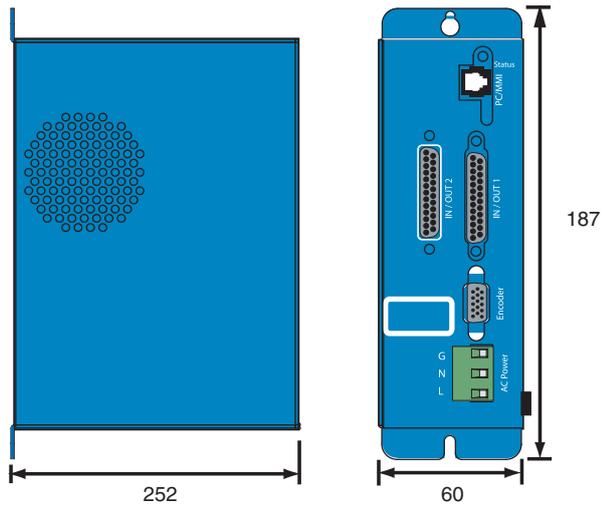


CONFIGURATOR™ CONFIGURATION SOFTWARE

The new CONFIGURATOR™ software simplifies the setup and configuration of the STAC6. Click on the icon representing the aspect of the drive that needs changing and an intuitive dialog box will open. Configuration data for recommended motors is available from a drop down menu. The Configurator also allows the user to create a custom motor configuration.



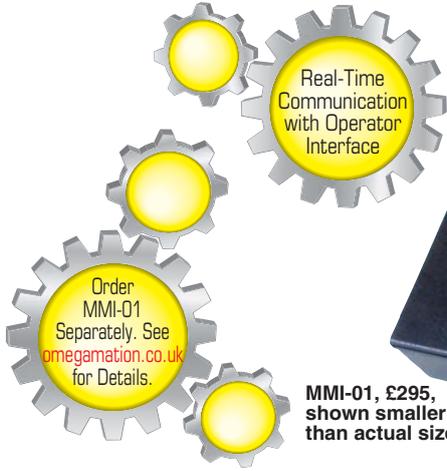
The CONFIGURATOR™ incorporates a new on-line help menu. All technical data, application information and advice on setting up the drive, now just a mouse click away.



Dimensions:
mm

ACCESSORIES

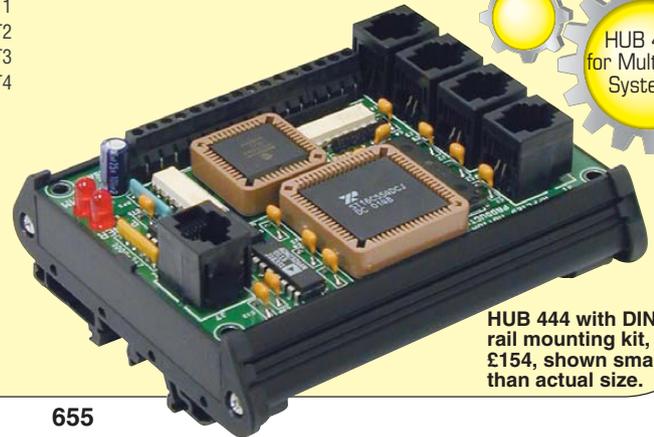
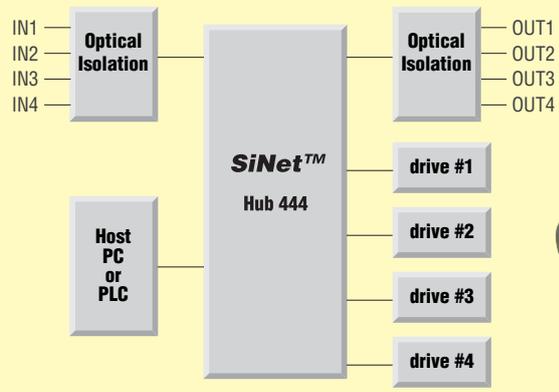
The STAC6-Si is available with an optional MMI operator interface. The MMI-01 is an easy-to-use, IP56/52, NEMA 4/12 terminal with a 20 key membrane keypad and 4x20 character LCD display. Software for using the MMI is contained in the Si Programmer itself, and therefore all functions of the MMI come with each Si drive. The MMI can be used to display messages to an operator, wait for an operator to press the ENTER key, allow an operator to enter move distances, move speeds, and loop counts, and much more.



MMI-01, £295, shown smaller than actual size.

Multi-Axis Systems

Connect up to 4 drives on a multi-axis system using SiNet™ Hub 444. Use SiNet Hub Programmer™ software to develop your sequence of events, then download to the hub for a stand-alone system or send serial commands to the drives from a PC, PLC, HMI, or other host controller.



HUB 444 with DIN rail mounting kit, £154, shown smaller than actual size.

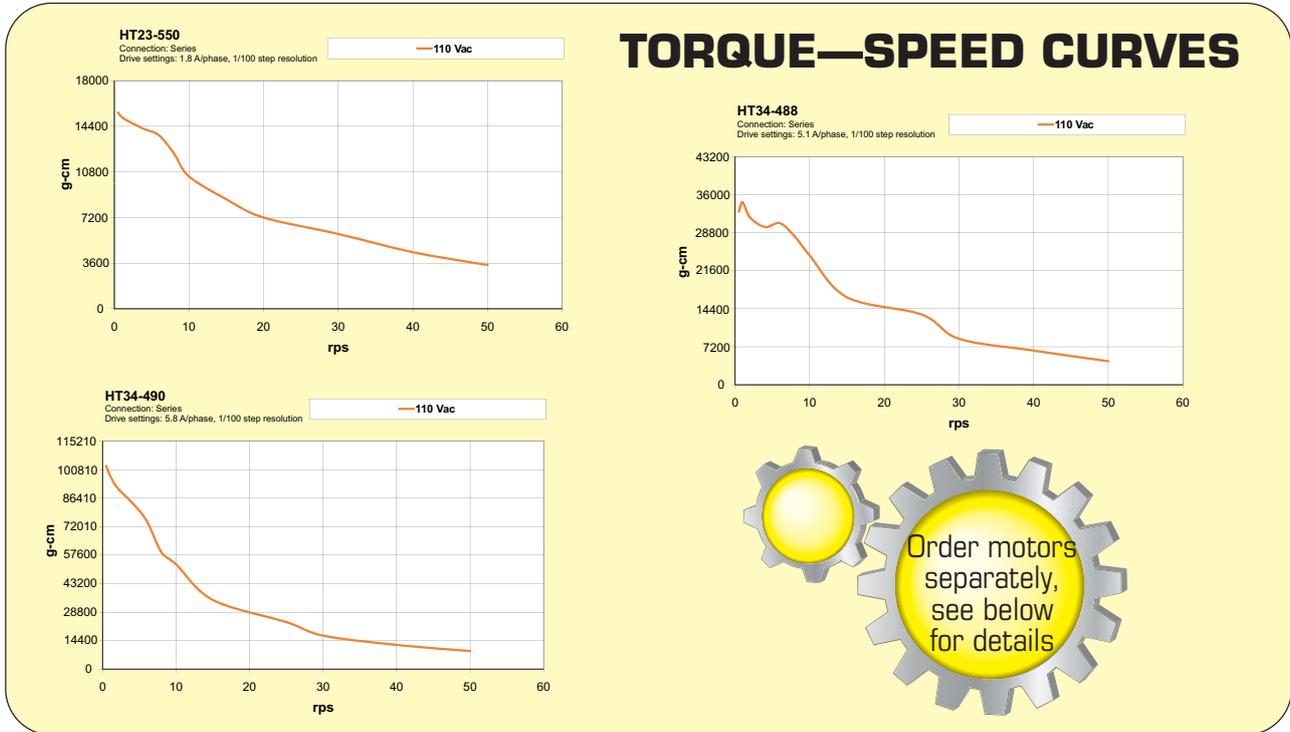


OMBOB-1, £80, shown smaller than actual size.



OMBOB-1/OMBOB-2 Breakout Box for I/O Connector

- Break out DB-25 I/O Connector to Screw Terminals
- Includes 1 m Cable
- OMBOB-1: Compatible with all STAC6 Models
- OMBOB-2: Compatible with STAC6-Si



To Order (Specify Model Number)

MOST POPULAR MODEL HIGHLIGHTED!

MODEL NO.	PRICE	DESCRIPTION
STAC6-S	£535	High performance stepper drive complete with AC power supply
STAC6-Si	665	High performance stepper drive with AC power supply and Si Programmer™
STAC6-220-S	600	High performance stepper drive with 220 Vac power supply
STAC6-220-Si	735	High performance stepper drive with 220 Vac power supply and Si Programmer™

* Software and download cable included.

Ordering Example: STAC6-S, high performance stepper drive with AC power supply, £725.

RECOMMENDED MOTORS

MODEL NO.	PRICE	HOLDING TORQUE g-cm	RATED VOLTAGE (V)	RATED CURRENT (A)	RESISTANCE OHMS	INDUCTANCE MH	ROTOR INERTIA g-cm ²
57 mm STEP MOTOR SPECIFICATIONS (RATINGS ARE WITH MOTOR CONNECTED IN PARALLEL)							
OMHT23-550	£133	18,362	3.2	2.83	1.13	3.8	480
120 mm STEP MOTOR SPECIFICATIONS (RATINGS ARE WITH MOTOR CONNECTED IN PARALLEL)							
OMHT34-488	149	46,806	1.6	8.6	0.4	1.3	1400
OMHT34-490	260	132,858	2.25	9.6	0.42	2.4	4000

Ordering Example: OMHT34-488, high torque step motor with 46,806 g-cm holding torque, £149.

See pages 646 to 649 for additional stepper motor information.

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
OMBOB-1	£80	Breakout box for I/O connector #1
OMBOB-2	80	Breakout box for I/O connector #2

Ordering Example: OMBOB-1, breakout box for I/O connector #1, £80.

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters