

STM Series Integrated Stepper Motor

Key Features

Advanced Technology

- Advanced current control
- Microstep emulation to provide smooth motion even with low step resolutions
- Anti-resonance algorithm to eliminate the midrange instability
- Torque ripple smoothing algorithm to adjust waveform to reduce low speed torque ripple
- Command signal smoothing algorithm to smooth the motion of the motor

Multiple operating modes

- Step & Direction
- CW/CCW
- Encoder following
- Analogue velocity or digital velocity (oscillator & joystick)
- Q programmer
- SCL "Host" commanding in real time vial RS-232 or RS-485 serial communication

Power supply 12-75 V dc

Software Features

Software selectable motor current 0.2-5 amps/phase in 0.01 amp increments

Optional communication RS-232/RS-485 or CAN Open Communication

Software selectable microstepping from 200 to 51200 steps/revolution

Self test feature

Automatic idle current reduction from 0 to 90% of full current after delay selectable in milliseconds

Up to 2000 line encoder option

Stall prevention and stall detection

Inputs & Outputs

- One 0-5V analogue input, 12 bit AD
- Three 5-24V digital inputs
- One 30V 100mA(max.) optical isolated digital output

Protection

Comprehensive protection including over temperature, over voltage, under voltage and short circuit protection

CE compliant

