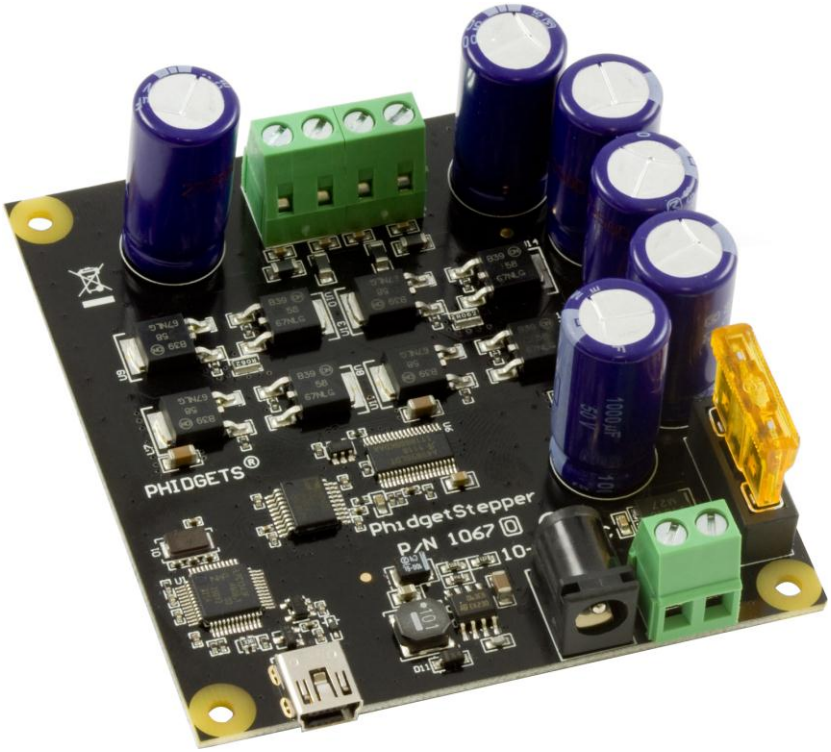
RB-Phi-179

PhidgetStepper Bipolar Stepper Motor Controller



Description

The 1067 – PhidgetStepper Bipolar HC allows you to control the position, velocity, and acceleration of one bipolar stepper motor. The 1067 can be used in applications that require very precise positioning; This is also the product you want to use to control larger industrial steppers or for applications that need a lot of torque. This board is USB isolated, protecting your system from ground loops, and comes with a built-in replacable ATP Blade Terminal fuse to protect against an over-current scenario.

Specifications

Controller Properties

- Motor Type: Bipolar Stepper
- Number of Motor Ports: 1
- Motor Position Resolution: 1⁄16 Step (40-Bit Signed)
- Position Max: ± 1E+15 1/16 steps
- Stepper Velocity Resolution: 1 1/16 steps/sec
- Stepper Velocity Max: 250000 1/16 steps/sec
- Stepper Acceleration Resolution: 1 1/16 steps/sec²
- Stepper Acceleration Min: 2 1/16 steps/sec²

- Stepper Acceleration Max: 1E+07 1/16 steps/sec²

Electrical Properties

- Available Current per Coil Max: 4 A
- Supply Voltage Min: 10 V DC
- Supply Voltage Max: 30 V DC
- Current Consumption Min: 25 mA
- USB Speed: Full Speed

Physical Properties

- Power Jack: 5.5 x 2.1mm Center Positive
- Recommended Wire Size (Motor Terminal): 12 to 26 AWG
- Recommended Wire Size (Power Terminal): 12 to 26 AWG
- Operating Temperature Min: -20 °C
- Operating Temperature Max: 85 °C