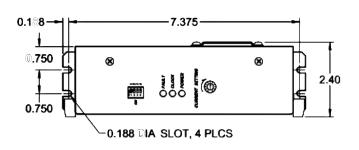
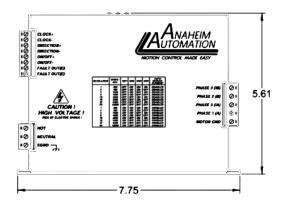


- 250 VAC Power Input
- High Torque Output
- Output Current 5.0 Amps Peak
- 200 to 12,800 steps/rev (1, 2, 5, 8, 10, 16, 32 and 64 Selectable Step Operations)
- Short Circuit Protection
- Over-Temperature and Over-Voltage Shutdown
- No Minimum Inductance
- Optical Isolation
- Motor ON/OFF input







If you're looking for big time stepper performance from a small driver, the MLU05641 is your answer. This powerful microstepping driver provides excellent torque in a compact and low profile encloser. The MLU05641 is also very easy to use. It features rugged terminal blocks, a rotary pot for current settings, and a visible silkscreen for easy installation and configuration.

Versatile as well as powerful, the MLU05641 has a wide amperage range. It is designed to handle stepper motors rated as low as 1.0 Amps/phase 5.0 Amps. It operates from a AC voltage of 95-250 Volts, making it a great fit for almost any stepper application.

L010361

The MLU05641 features optically isolated inputs that are 3.5 - 24VDC compatible. The clock input can be set to receive either sinking or sourcing clock signals at frequencies up to 400KHz. The driver also features direction control, motor on/off capabilities, fault output and a built in short circuit and miswire shutdown protection.

The MLU05641 is a bipolar type driver designed for use with 4, 6, or 8 lead stepper motors, making it compatible for series and parallel installations. The driver has a 12,800 steps per revolution or 0.028° per step resolution, with respect to a 1.8° stepper motor. It also has a motor current reduction feature that will help keep stepper motors cool at standstill, and LEDs that indicate power and pulses being

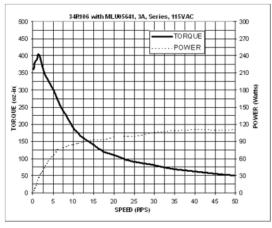
received, and fault conditions.

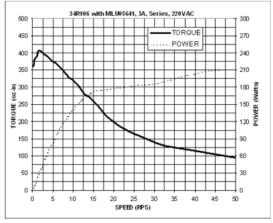
#### **Ideal Applications:**

Automated machinery or processes that involve food, cosmetic, or medical packaging, labeling, or tamperevident requirements, cut-to-length applications, electronic assembly, robotics, factory automation, special filming and projection effects, medical diagnostics, inspection and security devices, conveyor and material handling systems, metal fabrication (CNC machinery), pump flow control, XY and rotary tables, equipment upgrades or wherever precise positioning or speed control is required.



### Torque Speed Curves





## **Specifications**

Power Requirements: 95 - 250VAC
Output Current Range: 1.0 - 5.0 Amps (Peak)

Microstepping Resolution: 12,800 Steps/Revolution (Div-by-64)
Input Signal Voltage: 3.5 - 24.0 VDC

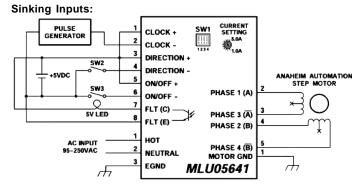
Input Clock Frequency: 0 - 400 KHz

Minimum Input Current: (Isolated Inputs)

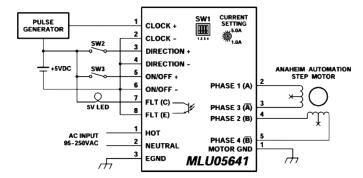
Storage Temperature: 0° to + 50° C

Absolute Maximum Driver Temperature: 70° C

Driver Type: Bipolar, Compatible with 4, 6, and 8 Lead Motors. Series or Parallel connection.



### **Sourcing Inputs:**



# Additional Ordering Information

Model #	Description	Input Voltage	Power (Watt)
PCL601	Single Axis Simple Programmable Controller, RS232/485 Compatible	24 VDC	-
PCL601USB	Single Axis Simple Programmable Controller, USB Compatible	24 VDC	-