

MLP08641 - Line Powered Driver

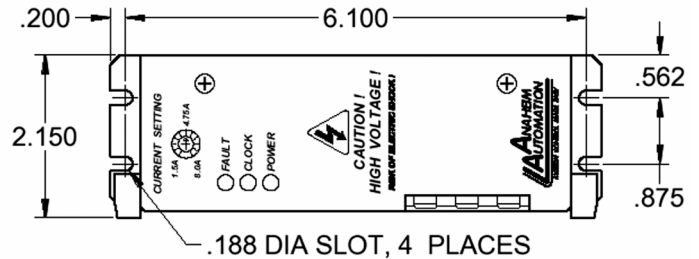
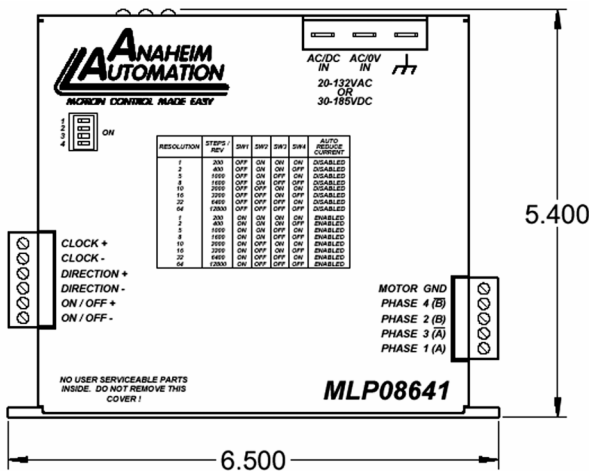


FEATURES

- Designed for OEM Applications
- Cost Effective Line Powered Driver
- No Power Supply Needed
- Outstanding Servo-Like Performance
- Smooth Microstepping Resolution
- Compact and Rugged Construction
- Compatible with NEMA 23, 34, and 42 Step Motors



DIMENSIONS



DESCRIPTION

Would you like your step motor to ramp quicker and move faster without increasing your budget? Anaheim Automation has designed the best step motor driver solution in the industry. The MLP08641 driver will provide your motion control systems outstanding performance without having to pay for any “extra’s”.

Don't be oversold on features that increase your budget. Take control of your driver needs by relying on Anaheim Automation's expertise; helping you regain control of your project budget without compromising quality.

The MLP08641 will generate 50% more torque and 50% more power at speeds greater than 10RPS. The driver is able to accelerate the motor faster due to the higher bus voltage that will improve or shorten any systems cycle time. This performance increase will improve your productivity rate, motor output torque and reaction time, improving your systems overall performance.

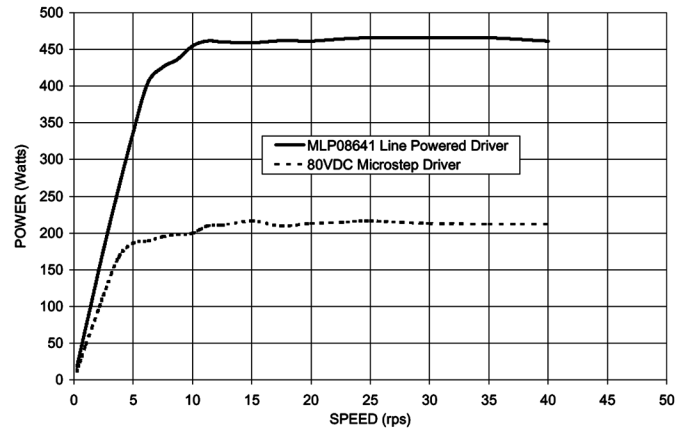
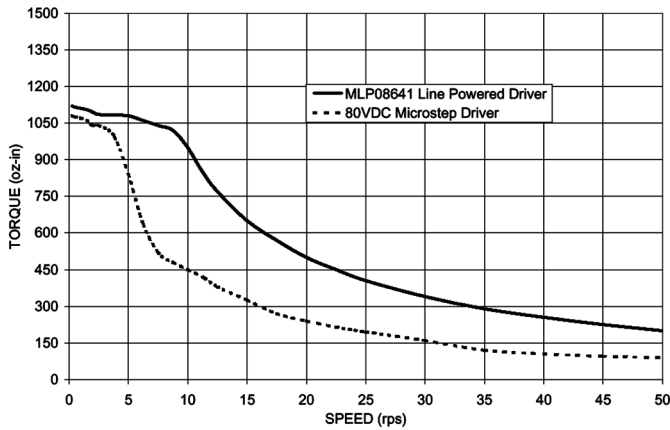
The MLP08641 Line Powered Step Motor Driver will operate off 90VAC - 132VAC line voltages which provides outstanding high speed and high output torque, smooth positioning, and an opti-

mized design at a cost effective price.

Ideal Applications:

CNC Machines, Packaging Machinery, Labeling Machinery, Web Processing, Inspection Machines, Agriculture, Food & Beverage, Paper Feeders, Tamper Evident, Materials Handling, Textile Machinery, Gantry Automation, General Robotics and many more.

Comparison Curves: MLP08641 vs. 80VDC Microstep Driver



These curves compare the performance of the MLP08641 to an 80VDC microstep driver to help illustrate the additional torque and power output capabilities of the line powered MLP08641. As you can see, the MLP08641 easily outperforms the 80VDC microstep driver without the need for an additional power supply.

The MLP08641 is a line-powered, high performing microstep driver, with an output current capability of 1.5 Amps minimum and 8.0 Amps maximum. The MLP08641 operates with either an AC voltage of 20-135 VAC, or a

DC voltage of 30-185 VDC. The inputs are optically isolated, with a minimum sourcing of 7.0 mA per input (+5VDC minimum to +24VDC maximum). The clock input is set to receive either positive or negative edge clocks with a maximum frequency of 400KHz. This line-powered driver offers direction control and motor current ON/OFF capabilities.

The Reduce Current Enabled feature automatically reduces the motor current to 50% of the set value after the last step is made (1 sec. delay). The driver has built-in features including a green

LED to indicate Power On, a yellow LED to indicate clocks being received, and a red LED to indicate fault conditions. Protection devices featured in the driver are phase to phase short-circuit, motor miswire, and over-temperature and over-voltage conditions.

The MLP08641 also features various step motor resolutions, that can be selected by an onboard DIP switch. These divisors range from 200 to 12,800 steps per revolution: 1, 2, 5, 8, 10, 16, 32, and 64. The MLP08641 bipolar drive is compatible with 4, 6 and 8 lead step motors.

Ordering Information

Model #	Number of Axis	Current Range (A)	Description	Input Voltage (VAC)	Power (Watt)
MLP08641	1	1.5 - 8.0	Line Powered Microstepping Bipolar Driver	90 - 132	500
DPMLP601	1	1.5 - 8.0	MLP08641 Driver Packaged with a Programmable Controller. Fixed, Divide by 5 resolution.	90 - 132	500
MLP08501	1	1.5 - 8.0	Similar to the MLP08641 Driver, but with step divisors of 1, 2, 5, 10, 25, and 50.	90 - 132	500