

IMS New Product Release

World's Smallest 7 amp Stepping Motor Driver

The IM805H is a high-performance, very low-cost microstepping driver that utilizes advanced hybrid technology to reduce size to an amazing 2.6" x 2.1" x .36" without sacrificing power or features. It has an input voltage of +24-75V and an output current of 1 to 5A RMS, 7A Peak. It is designed to be soldered directly into a PC board, eliminating the need for wiring and mounting, thus saving design and assembly time, reducing system cost, and increasing reliability. In addition, each unit is 100% tested and comes with a 2-year warranty.

The IM805H has 14 built-in microstep resolutions from ½ step to 1/256 step (both binary and decimal) that can be changed at any time without the need to reset the driver. In many instances, mechanical gearing can be replaced with microstepping. With the development of proprietary and patented circuits, ripple current has been minimized to reduce the motor heating common with other designs. This feature allows the use of low inductance motors to improve high-speed performance and system efficiency. Other features include short circuit and over temperature protection, fault input & output, programmable output current and automatic current reduction.

A lower power version is also available utilizing a common package and pin configuration providing added flexibility in that the system designer can increase or decrease the power of the system according to need, without having to redesign the interface to the drive. This drive, with its ultra-small size, advanced technology and low-cost, provides designers with an affordable, state-of-the-art solution for the competitive edge needed in today's market.

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