

Evaluation Kit for Steppers

Introducing: Saia® Engineering Evaluation Kit-2 for Rotational or Linear Unipolar and Bipolar Stepper Motors

Stepper motors are very flexible motion control devices. They are found in countless industrial, consumer and automotive applications. Based on the wide variety of applications in which these motors are found, there are equally as many drive circuits and controls in use with them. The development, test and optimization of any new stepper drive can be a time consuming and costly procedure for a development engineer.

To alleviate this potential design headache, Saia has developed a unique PCB that enables a design engineer to test, modify, and optimize a driver for their application economically and within a short time frame by experimenting with a library of circuits and drive modes.

The Evaluation Kit for stepper motors is a universal development and test tool allowing fast prototype development, as well as flexible application support.

One company with no experience using stepper motors was able to begin testing in just a few minutes after receiving the kit. The Evaluation Kit provided instant feedback and results that reduced their development time thus decreasing time to market. The kit provided an avenue for their engineers to quickly change drive mode, step frequency and the ability to power the motor in their assembly.

The Saia Evaluation Kit performs all of the complex commands internally, while providing a visual confirmation back to the engineers via a windows-based computer. Our hardware and software tools were developed to perform a multitude of functions. This combination enables the design engineer to test, modify and optimize any stepper motor drive application within short time and relatively low costs.



Features and Benefits

- Quick set up with PC based software to easily set working range, step frequency, drive mode and more
- All commands are Windows based

Specifications

- 3 - 48 VDC or 24 VAC supply voltage
- 11 step modes
- 10 kHz max step frequency
- 4 signal outputs
- 3 digital inputs
- 1 analog input
- relay contact
- RS232 interface; USB adapter

Operation

After setting motion parameters, using the Command Window enables motor operation in several step modes including:

- Full step
- Half step
- Microstep
- Chopper
- Wave

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