Introduction

The SMD4 stepper motor drive is a single-axis bipolar stepper motor drive, intended for use with AMLs range of vacuum-compatible stepper motors (VCSMs). It maximises motor performance while minimising temperature rise.

Powerful software is supplied with the SMD4 that enables you to easily control and configure multiple SMD4 units
simultaneously, in a single, user-friendly graphical interface. For advanced users, the drive can also be controlled via scripting in JavaScript.

The drive features extensive communications options, including USB, RS232, RS485 and Ethernet. It also includes an innovative boost feature; this uses an internal circuit to increase the 48 V input up to 67 V for driving the motors. This allows the use of standard 48 V power supplies without compromising on motor performance.

The drive supports incremental and absolute BiSS encoders (when so equipped). This enables features including closed loop control and virtual limits based on encoder position and greatly expands the features of the product.

Liability and warranty

AML assumes no liability and the warranty becomes null and void if the end-user or third parties:

- Disregard the information in this document
- Use the product in a non-conforming manner
- Make any kind of alterations (modifications, repair work, etc.) to the product
- Use the product with accessories not listed in the corresponding product documentation

We reserve the right to make technical changes without prior notice. The figures are non-committal.