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VariStep3 Stepper Motor Driver

MOTORTECH presents its latest development, the **VariStep3 stepper motor driver** (P/N 31.01.960). Produced in-house, the module is intended for optimal driving of the various MOTORTECH VariFuel2 air/gas mixer types and throttle bodies with integrated stepper motor and **will in future replace the VariStep stepper motor card** (P/N 31.01.955).



You can see an overview of the most important innovations below:

- 32-bit latest generation microcontroller
- Increased signal rate of the analog outputs permits even faster reaction times (reduced from 10 ms to 1 ms)¹⁾
- The even more efficient power amplifier ensures boosted output performance and in this way higher speed and fast operation even for large stepper motors¹⁾
- Accelerated reference run
- Integrated CANopen and Modbus RTU interface
- The enlarged error memory shows an overview of all warnings, errors and alarms that have occurred and in this way supports error diagnosis.
- Configuration of the VariStep3 is also carried out with the graphical user interface MICT (MOTORTECH Integrated Configuration Tool)
- LEDs for status and manual/automatic mode can be found user-friendly on top of the housing
- To guarantee easy integration in an existing system design or simple replacement in the field, the plug connections are largely adopted from the VariStep stepper motor card.
- Thanks to further improved cooling, ambient temperatures from -20 °C to +60 °C (-4 °F to +140 °F) are now permitted
- Compact design due to reduced housing length for space-saving installation in the control cabinet
- Robust aluminum housing

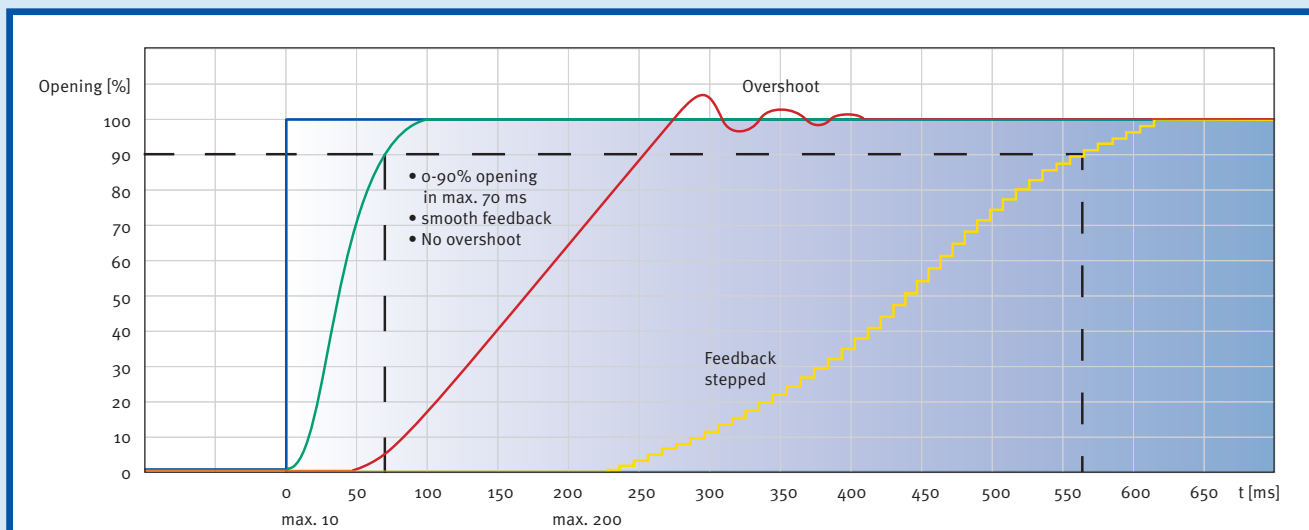


¹⁾Also see diagram on page 2.

DISTRIBUTION

Customers / Others	Yes
Representatives and Sales Partners	Yes
OEM partners	Yes
MOTORTECH subsidiaries	Yes

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Feedback: — Target value — VariStep3 — Competitor — VariStep

Mechanical data

Feature	VariStep3 (P/N 31.01.960)	VariStep (P/N 31.01.955)
Dimensions	160 x 126 x 62 mm (LxWxH) (6.30" x 4.96" x 2.44")	217 x 128 x 50 mm (LxWxH) (8.54" x 5.04" x 1.97")
Weight	655 g (1.5 lbs)	655 g (1.5 lbs)
Mechanical environmental conditions	Protection: IP20	Protection: IP20
Climatic environmental conditions	-20 °C to +60 °C max. (-4 °F to +140 °F)	-15 °C to +55 °C max. (+5 °F to +140 °F)

Electrical data

Feature	VariStep3 (P/N 31.01.960)	VariStep (P/N 31.01.955)
Power consumption	Max. 60 W	Max. 31 W
Power supply	18 to 32 V DC	18 to 32 V DC
Required current	Max. 5,0 A	Max. 1,7 A

The sales flyer for detailed information is available for download on <http://www.motortech.de/download-center.html>.

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