



**Compact Control of Stepper Motors**

# Stepper Motor Module VST 011

ultra-compact, high performance and flexible

## Compact Control of Stepper Motors

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With the VST 011, the user is provided with an ultra-compact power unit for controlling 2-phase stepper motors with a rated voltage of 18 – 70 VDC. A maximum of 5 A continuous current is possible. Therefore large stepper motors with high torque can also be controlled. The VST 011 supports micro stepping (32 steps). The basic module also has an incremental encoder interface. In addition, 4 digital in- and outputs each are integrated (each 24 V), which can be used according to the application. The real-time data exchange for speed and position control as well as parametrization are performed over the fast VARAN bus. The parameters are a part of the control application, whereby the module exchange is drastically simplified and service interfaces are unnecessary.



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## Technical Data

Interfaces:	1 x VARAN-In, 1 x VARAN-Out
Enable input:	1 x 24 V / 5 mA / 5 ms
Stepper motor output:	Supply: 18 - 70 V Output current: 5.0 A continuous current in full step mode 3.5 A continuous current (5 A peak) in half step mode 3.5 A continuous current (5 A peak) in micro step mode Controller frequency: maximum 50 kHz Step resolution: 32 micro steps per full step
Incremental encoder input:	1 x incremental encoder signals (A, /A, B, /B, R, /R), RS422 signal, 250 kHz
Digital inputs:	4 x 24 V / 5 mA / 10 µs
Digital outputs:	4 x 24 V / 2 A / short circuit proof
Electronics supply:	18 - 30 V
Operating temperature:	0 - 60°C
Status display:	16 LEDs
Mechanical dimensions:	26 x 151 x 121,5 mm (W x H x D)

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