

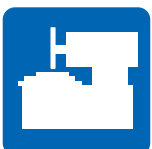


Inverter A1000  
Inverter V1000  
1000 Hz

## A1000 and V1000 High Output Frequency Specification

- ▶ **Excellent motor drive performance:**  
A1000 and V1000 are both compact size inverter drives running induction motors with an output frequency between 0.0 and 1000.0 Hz.  
A1000 also runs permanent magnet motors (open loop).
- ▶ **Built-in functional safety features:**  
The implemented Safe Torque Off (STO) function replaces output contactors and significantly improves machine safety and reliability and provides substantial cost reduction potentials.
- ▶ **Easy integration of PLC functionality:**  
DriveWorksEZ creates a custom drive functionality with just some mouse clicks and by fast and intuitive programming.
- ▶ **Space saving and compact set-up:**  
Outstanding power to size ratio and gapless side-by-side installation reduce the mounting space to a minimum.
- ▶ **Reliable operation:**  
Long life design for 10 years of maintenance-free operation.
- ▶ **Fast Acceleration / Deceleration**  
High peak current capability for rapid start and stop.  
Time required for tool changes at spindles is minimised increasing the time-efficiency of machine cycles.

### Applications

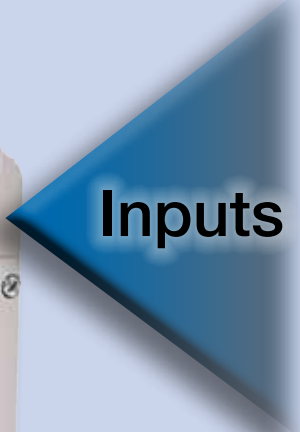


Spindle Drives for  
Machine Tools



Drilling Machines

## Standard Specifications

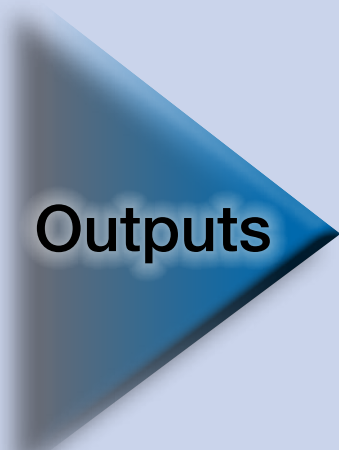


Inputs	A1000	V1000
<b>Multi functional digital inputs</b> NPN-/PNP logic programmable	8	6
<b>Multi functional pulse train input</b> (up to 32 kHz)	HIGH level: 3.5 to 24 VDC LOW level: 0.0 to 0.8 VDC	HIGH level: 3.5 to 24 VDC LOW level: 0.0 to 0.8 VDC
<b>Functional safety</b> 2 Channel Safe Torque Off (EN ISO 13849-1, PLd)	✓	✓
<b>Multi functional analog inputs</b>	3	2

Analog Inputs A1000:  
 A1: -10/0 ... 10 V  
 A2: -10/0 ... 10 V or 0/4 ... 20 mA selectable  
 A3: -10/0 ... 10 V selectable as PTC input

Analog Inputs V1000:  
 A1: -10/0 ... 10 V  
 A2: -10/0 ... 10 V or 0/4 ... 20 mA selectable

MEMOBUS/Modbus, RS232, USB,  
 RS422/RS485 up to 115.2 kBaud,  
 Termination resistor (120 Ω) switchable



Outputs	A1000	V1000
<b>Fault output <sup>1</sup></b> Relay / changeover contact programmable	✓	✓
<b>Multi functional digital outputs</b>	3	2
<b>Multi functional pulse train output</b>	✓	✓
<b>Multi functional analog outputs</b>	2	1
<b>External Device Monitor</b> Status for Safe Torque Off function	✓	-

<sup>1</sup> 30 VDC 10 mA ... 1A  
 250 VAC 10 mA ... 1A

### International Standards



### Safety Standards



### RoHS Directive

RoHS Directive stands for the EU directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment