

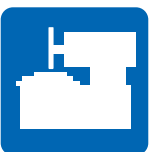


Inverter A1000
Inverter V1000
1000 Hz

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

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Standard Specifications



Inputs

Inputs	A1000	V1000
Multi functional digital inputs NPN-/PNP logic programmable	8	6
Multi functional pulse train input (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
Functional safety 2 Channel Safe Torque Off (EN ISO 13849-1, PLd)	✓	✓
Multi functional analog inputs	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

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

¹ 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