



200 V Three-Phase
0.4 kW to 110 kW

400 V Three-Phase
0.4 kW to 630 kW

Inverter Series High Performance Vector Control

- ▶ **Excellent motor drive performance:**
A1000 is a premium inverter drive running not only induction motors, but also PM motors (open and closed loop) with full torque at zero speed
- ▶ **Built-in functional safety features:**
The implemented Safe Torque Off (STO) function significantly improves machine safety and reliability and provides substantial cost reduction potentials
- ▶ **Optimized machine efficiency:**
Advanced energy-saving control technology which improves efficiency and machine productivity in combination with induction and PM motor operation
- ▶ **Easy integration of PLC functionality:**
DriveWorksEZ creates a custom drive functionality with just some mouse clicks and by fast and intuitive programming
- ▶ **Easy and time-saving start-up:**
A1000 automatically sets parameters needed for major applications and provides a full text display (8 languages)
- ▶ **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

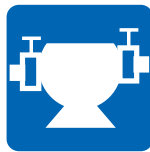
Applications



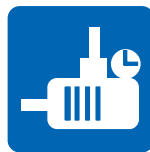
HVAC



Fan



Pump



Compressor



Conveyor



Hoist,
Cranes



Extruders



Punching
Presses



Winders



Machine Tools



Standard Specifications



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

- ▶ **8 Multi functional digital inputs**
 Sinking/Sourcing mode selectable
 External power supply usable (24 VDC)
- ▶ **Multi functional pulse train input (up to 32 kHz)**
 HIGH level: 3.5 to 24 VDC
 LOW level: 0.0 to 0.8 VDC
 Easy synchronizing with other drives
- ▶ **Functional safety**
 2 Channel Safe Torque Off (EN ISO 13849-1, PLd)
- ▶ **3 Multi functional analog inputs**
 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

Inputs



Outputs

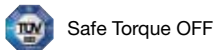
- ▶ **Fault output**
 CO relay output (N. O. and N. C.)
 30 VDC 10 mA ... 1A
 250 VAC 10 mA ... 1A
- ▶ **3 Multi functional digital outputs**
 Relay (N. O. or N. C. programmable)
 30 VDC 10 mA ... 1A
 250 VAC 10 mA ... 1A
- ▶ **Multi functional pulse train output**
 Up to 32 kHz
 Easy synchronizing with other drives
- ▶ **2 Multi functional analog output**
 -10/0 ... 10 V or 4 ... 20 mA selectable
- ▶ **External Device Monitor (EDM)**
 Status for Safe Torque Off function
 48 VDC 50 mA

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

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