

YASKAWA

200 V Single-Phase 0.1 kW to 4.0 kW

200 V Three-Phase 0.1 kW to 18.5 kW

400 V Three-Phase 0.2 kW to 18.5 kW

Inverter Series Compact Vector Control Inverter Drive

Excellent motor drive performance:

V1000 is a compact size inverter drive running not only induction motors, but also 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.

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: V1000 automatically sets parameters needed for major applications. The same easily unterstandable parameter structure like in other YASKAWA 1000 series drives allows hassle free setup in shortest time.
- Space saving and compact set-up: Outstanding power to size ratio and gapless side-by-side installation reduce the mounting space to a minimum.
- Small design Big power: V1000 can handle 150% overload for 1 minute to satisfy heavy duty applications. In normal duty mode it runs a one size larger motor and contributes to small and cost effective machine design.

Reliable operation:

Long life design for 10 years of maintenance-free operation.

Applications





Pump

Compressor



Conveyor

Fan



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Standard Specifications

<image/>	 6 Multi functional digital inputs Sinking/Sourcing mode selectable 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) 2 Multi functional analog inputs A1: -10/0 10 V A2: -10/0 10 V or 0/4 20 mA selectable
<complex-block></complex-block>	 MEMOBUS/Modbus, RS232, USB, RS422/RS485 up to 115.2 kBaud, Termination resistor (120 Ω) switchable Fault output Relay / changeover contact programmable 30 VDC 10 mA 1A 250 VAC 10 mA 1A 2 Photo-coupler outputs programmable max. 48 VDC / 2 50 mA Multi functional pulse train output Up to 32 kHz Easy synchronizing with other drives 1 Analog output programmable 0 +10 V / 2 mA, res. 1/1000

Safe Torque OFF

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

RoHS Directive