# Reliance Electric GV3000/SE Industrial AC Drive



Multi-Purpose variable speed control of 0.75-200 kW three-phase motors, with Volts/Hertz or Vector mode operation as standard

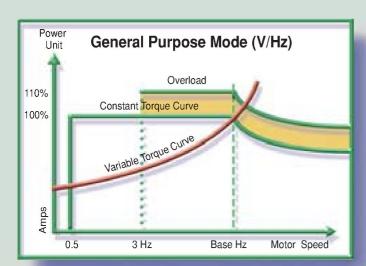




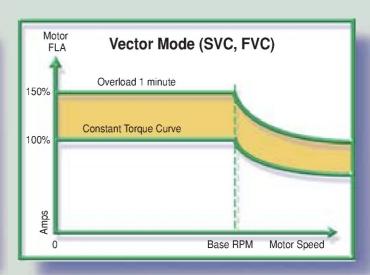
# FLEXIBLE Control







General Purpose Mode Volts/Hertz allows classical variable speed control of single or multiple motors from one drive. Operate either squirrel-cage induction or permanent magnet synchronous AC motors in this control mode. It's ideal for applications such as centrifugal fans and pumps, or conveyor applications.



Vector Mode allows operation in either open loop Sensorless Vector control or closed loop Flux Vector control. Selection between the two is done simply by selecting the Encoder PPR value. Choose a numerical PPR for closed loop operation, or choose "SE" for Sensorless Enhanced open loop operation. In most cases, tuning the drive isn't even necessary when switching between Sensorless and Flux Vector control due to the shared parameter set used for both methods of control.

# RATINGS and Packaging



IEC-rated design for space optimization. Includes 7th IGBT for braking.



## ☐ Bookshelf Packaging for Panel Mounting

IP20 Bookshelf Drives	
• 380 to 460 VAC	2.1 to 30 A



# ☐ Standard Packaging for Panel Mounting

IP20 Drives	
• 380 to 460 VAC	38–360 A



Washdown duty – ideal for food processing environments.

NEMA 4X / IP54 Drives (Washdown)	
• 380 to 460 VAC	1–5 HP



Keep dust and dirt from contaminating the drive without the cost of a separate enclosure.

NEMA 12 / IP52 Drives (Dust Tight)	
• 380 to 460 VAC	1–20 HP

## **EMBEDDED Solutions**

Interbus,

or other networks.

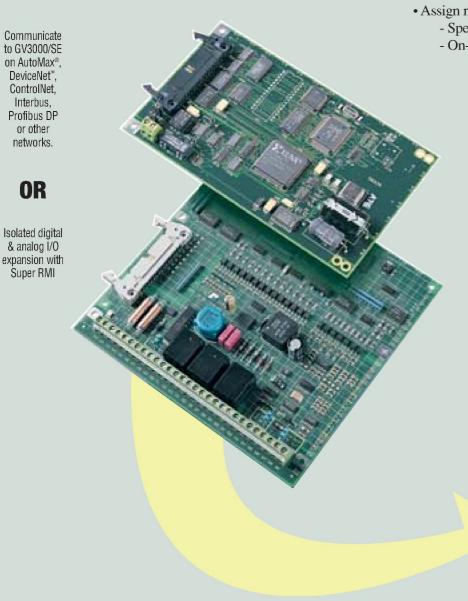
**OR** 

Option boards for various needs mount cleanly inside every GV3000/SE design. Network communications and I/O expansion cards connect directly to the GV3000/SE Regulator through a high-speed dual-port connection. With either of these options installed, you can take advantage of GV3000/SE's inner and outer control loops to adapt to any application.

A dual-port connection allows direct access to the 32-bit, Motorola 68332® processor for quick acknowledgement and response in networked applications.

I/O expansion allows terminal connections for more advanced drive control:

- PI setpoint control
- Outer loop trim of speed or torque for:
  - Inertia compensation
  - Current compounding
- Frequency input
- · Additional preset speeds
- Assign relay outputs for:
  - Speed & torque setpoints
  - On-Delay logic



mounted inside the GV 3000



# SIMPLE Operation and Setup

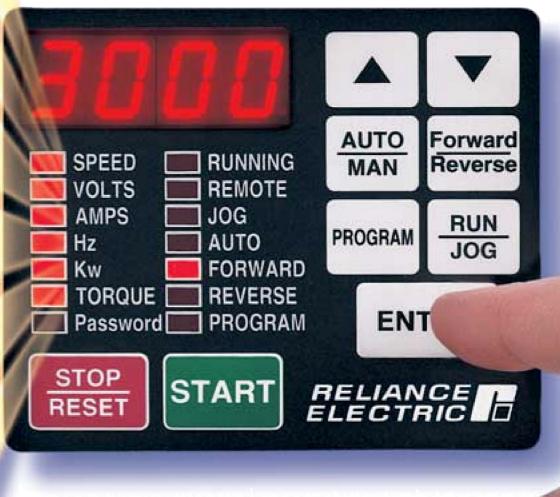
Built into every GV3000/SE is this simple to use display and keypad. Bright LEDs provide clear indication of programming, operating, and monitoring values.

Arrow keys are used to change speed as well as to change data.

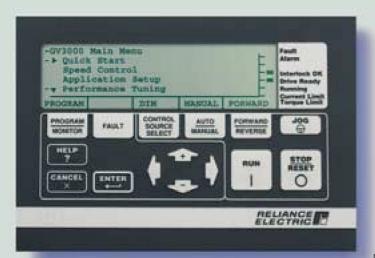
Monitoring of motor operation is done easily by pressing the ENTER key. This allows you to scroll through each monitor display by pressing only one key.

Other indicators provide operation and directional information in the same intuitive manner.





### **Optional Operator Interface Module**



The Operator Interface Module (OIM) provides a remotemounted drive interface.

The large, easy-to-read graphical display and function keys allow simple operator control, monitoring, and diagnostics.

A built-in help menu provides clear descriptions of drive setup and operation.



### Help Menu

- Provides text description of parameter operation and use
- Eliminates the need to refer to instruction manuals
- Provides description of OIM operation



### Monitor Operation

- Select 2, 4, or 6 lines of motor information
- Adjust text contrast for readability
- View intuitive status messages without selecting menus



Main Menu display allows selection

- · Quick Start
- Speed Control
- Application Setup
- Performance Tuning
- Motor Data

- Setup is made easy with self-prompting menus and parameter groupings.
- Drive Status
- Regulator Terminal Strip
- Option Port Configuration
- Memory Functions
- Additional Parameters

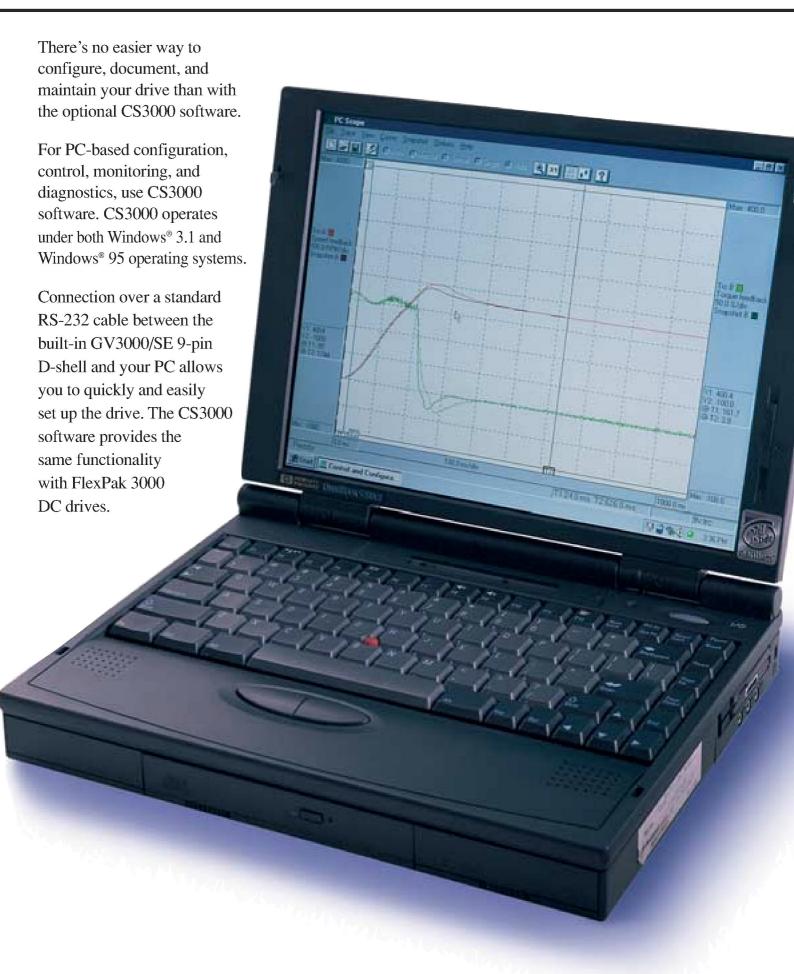


### Displays can be shown in 5 languages.

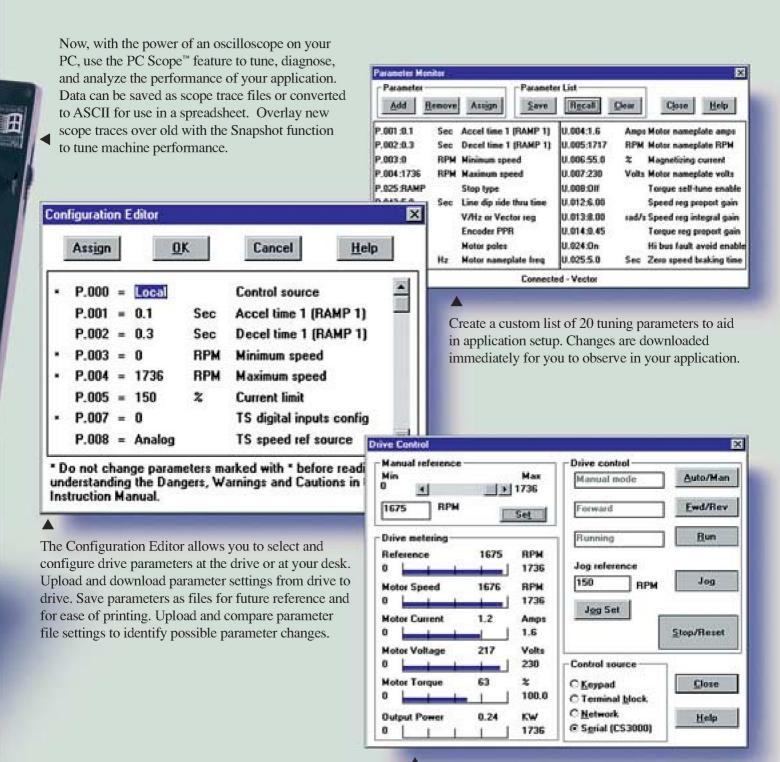
Language Menu

- English
- Deutsch
- Français
- Español
- Italiano

# INTUITIVE Software

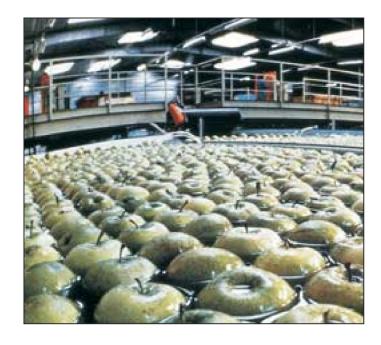


### CS3000 Version 6.0 with PC Scope



From your PC you can operate the drive and monitor motor performance, including speed, current, voltage, torque, and kW.

# ADAPTABLE in Application



For demanding applications that were once dominated by DC drives and other control technologies, look to the GV3000/SE in Vector Mode for high performance along with reduced operating and maintenance costs.







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