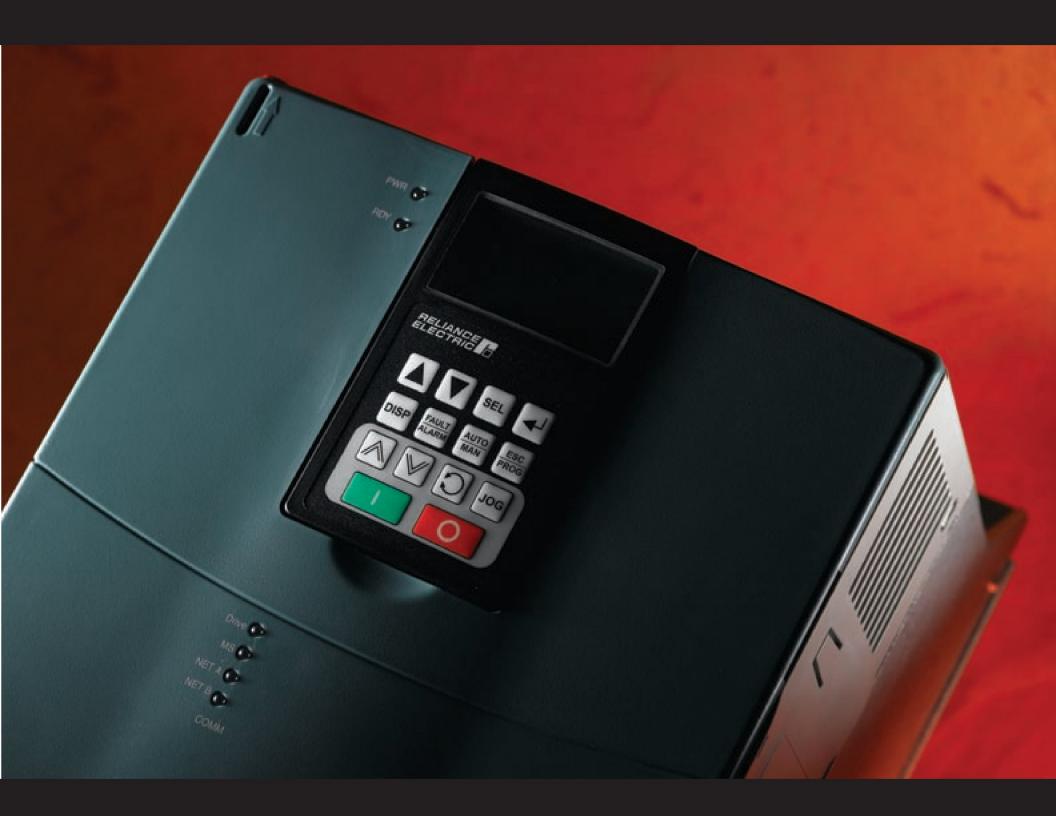


GV6000 AC DRIVES





Reliance Electric $^{\mathsf{T}}$ GV6000 High-Performance Variable Speed AC Drives \mathbf{Power} . $\mathbf{Controlled}^{\mathsf{T}}$.

How well is your power controlled?

Rockwell Automation's Reliance
Electric brand represents more than
100 years of expertise in developing
and building electrical drive products
that improve the performance
and efficiency of industrial and
commercial motors.

Now we are proud to introduce the newest and most innovative member of our AC drive family—the GV6000 multipurpose industrial AC drive.

Power. Controlled. The new GV6000 drive provides the power you need. Control—down to zero speed with precision to meet your demanding requirements.

Its simplicity and broad application flexibility provide all the versatility you need in standalone, retro-fit, or system integration applications. Its platform is expandable and the easiest to use in its class. Its zero-stacking bookshelf design integrates three standard methods of control—general purpose (Scalar V/Hz), Sensorless Vector Control (SVC), and Flux Vector Control (FVC) with or without encoder feedback.

Even in FVC mode, no option boards are required — The Encoder connects directly to the control board. The GV6000 drive's closed-loop vector control ensures precise control over a 1000:1 operating range with the bandwidth needed for higher performance and greater accuracy.







GV6000 AC DRIVE... VERSATILITY & SIMPLICITY

EASIEST DRIVE TO SET UP AND OPERATE

- 1) Removable Operator Interface Module (OIM). The GV6000 OIM contains CopyCat Functionality for Transferring Parameter Sets between Drives.
- 2) Regular and I/O Electronics Housed in a Removable Cassette for Ease of Upgrade or Repair
- 3) Control Connections (removable terminal block)

- 4) Encoder Connections (removable terminal 9) Wire Strip Gauge and Screw Torque
- 5) Communications Module (Optional)
- **6)** Power Connections
- 7) Removable Conduit Plate to Facilitate Installation or Replacement of GV6000
- 8) External Communications Interface for Remote OIM or V*S Utilities (Accessible with Cover Closed)
- Specifications Molded Into Drive Enclosure for Easy Reference
- 10) Hinges Designed to Allow Full Opening of Cover Even When Drive is Mounted in Zero-Stacking Arrangement
- 11) Drive Nameplate Available on Side of Drive and Also Inside Drive Cover so that Information is Viewable Even When Drives are Mounted in Zero-Stack Configuration
- 12) Mounting Dimensions Are Engraved on Rear of Mounting Plate to Facilitate Layout of Mounting Surface
- 13) Snubber Transistor (7th IGBT) Internal to Drive Package (Standard on Frames 0 through 4)
- 14) EMC/CE Filtering Built-In Requiring No Additional Panel Space

PERFORMANCE ASSURANCES THAT **DRIVE THE INDUSTRY**

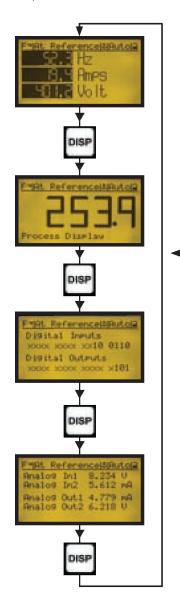
- 0.001% speed regulation with a 95% load change over a 120:1 speed range (FVC)
- 1000:1 operating range (FVC)
- 97.5% efficiency
- 0 − 420 Hz frequency output





MOST USER-FRIENDLY OPERATOR INTERFACE AVAILABLE IN SUPERIOR-PERFORMING AC DRIVES

Every GV6000 comes standard with our easy to use Operator Interface Module (OIM) to provide metering, programming and operator control. The GV6000 follows the same TAB programming style as the popular general purpose Reliance MD65 V*S Drive. This logically organized, easy to use method makes the GV6000 family member the easiest drive in its class to set-up and operate.



Backlit LCD Display

is large and easy to read.

Display key allows you to toggle among four different metering screens which provide viewing of key process parameters such as speed and load. They can even be scaled to your process units such as Gallons/Min or Boxes/hour.

DISP

Status portion of the screen indicates direction of rotation, drive status, notification of pending alarms, speed reference source and state of password locking of parameter writes.



▲ ▼ SEL ←

Increase, Decrease, Select, and Enter

keys let you quickly and efficiently navigate through programming parameter screens. "Spreadsheet"-style tabs can be navigated with Select key.



ESC/Program key

takes you into the program mode where parameters are arranged in logical groups or in a linear list.



lets you move parameters between drives.





Dedicated Fault / Alarm Key with

integral help text, simplifies troubleshooting; provides access to time stamped fault and alarm logs.

Additional Features:

- TAB menu is intuitive and easy to navigate with minimal keystrokes.
- Parameters include TABS for changing value and display limits, as well as help text to make setup easier.
- Text can be displayed in multiple languages.
- Similar version is available with full numeric keypad.
- Start-up Routines direct the user through self-prompting screens to quickly and easily set up the GV6000 without in-depth knowledge of the drive's parameters.

GV6000: No Equal for Precision & Performance

The GV6000 AC drive offers two levels of PC programming tools to accommodate your specific application.

V*S UTILITIES

- Online programming
- Online monitoring with custom parameter lists
- · Drive-to-file and drive-to-defaults comparison
- Diagnostics
- Multi-drop capable (EtherNet or Serial/Network)
- Flash updates
- Context sensitive product/parameter help

V*S UTILITIES PRO

- All features of V*S Utilities
- Offline programming
- Editing via linear list or using functional diagram
- Multi-parameter trend chart

FRAME SIZES

Frame 0

0.5 - 1 HP at 240V $0.5 - 7.5 \, \text{HP}$ at 480 V1 - 7.5 HP at 600V

Frame 1

2 - 7.5 HP at 240V 10 - 15 HP at 480V 10 - 15 HP at 600V

Frame 2

10 HP at 240V 20 - 25 HP at 480V 20 - 25 HP at 600V

Frame 3

15 - 20 HP at 240V 30 - 50 HP at 480V 30 - 50 HP at 600V

Frame 4

25 - 30 HP at 240V 60 HP at 480V 60 HP at 600V

Frame 5

40 - 50 HP at 240V 75 - 100 HP at 480V 75 - 100 HP at 600V

Frame 6

60 - 100 HP at 240V 125 - 200 HP at 480V 125 - 150 HP at 600V

GV6000 DIMENSIONS

Frame	Depth (in)	Height (in)	Width (in)	Weight (lb)
0	7.87	13.23	4.33	11.5
1	7.87	13.23	5.31	15.5
2	7.87	13.48	8.74	27.6
3	7.87	20.37	8.74	40.9
4	7.94	29.87	8.66	54.0
5	10.84	25.37	12.16	82.0
6	10.85	38.43	15.9	157.5 to
				165.5*

^{*}Depends on horsepower rating.



GV6000 OPTIONS

With the GV6000 AC drive's wide range of options, you can maximize data and speed control, as well as ensure flexible, easy operation. Optional features include an assortment of communications modules, software utilities, remote keypads and full-numeric keypads.



FULL NUMERIC OIM/KEYPAD



COMMUNICATIONS MODULE



REMOTE NEMA 4 OIM/KEYPAD



REMOTE NEMA 1
OIM BEZEL KIT



RAISING THE BAR WITH **ENGINEERING INNOVATION AND** VALUE-ADDED SERVICES

Rockwell Automation's Power Services Group sets new standards in valueadded service solutions. With our Power Services Group and local service centers located throughout North America, we can help you maintain your operation with maintenance programs, equipment startup, and repair/rebuild services for motor and mechanical products that are unmatched in the industry.



INDUSTRY SOLUTIONS

Today, DODGE and Reliance Electric Products are proving ideal for use in pharmaceutical, unit handling, and food & beverage applications throughout the world.

RENEWAL PARTS

Genuine DODGE and RELIANCE parts and many popular Custom Classic products that we no longer mass produce are available to you when and where you need them. With Rockwell Automation's \$90 million dollars of inventory, we are ready to ship the parts and components you need 365 days a year anywhere in the world. Our renewal parts and Custom Classics specialists are as close as your phone or the internet 24 hours a day, 7 days a week.



E-COMMERCE

Rockwell Automation offers a variety of e-Commerce solutions, allowing our customers to become more efficient and lower their overall operating costs. To learn more. reference the "How to Buy" section on www.dodge-pt.com and www. reliance.com or contact your Rockwell Automation Sales Representative.



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