

SVX9000 Adjustable frequency drives



Modular, configurable, compact



The Eaton SVX9000 adjustable frequency drive is the compact, modular solution to variable speed applications. A complete selection of option cards allows you to configure the drive to meet virtually any requirement. With its wide voltage range, high overload ability and user-friendly alphanumeric keypad, SVX9000 drives are the smart choice for every user.

Modular design: convenient and cost-effective

Just three screws link the control module to the power module. What's more, control units are interchangeable within frame sizes, while software, control panels, I/O and communication cards are common throughout the line. Separating the power and control units provides installation advantages and reduced spare parts requirements. For convenience, the SVX9000 is field-convertible from Type 1 to Type 12 (frames 4–6). Its reduced size equates to less panel space used and easy retrofits.

Quick startup wizard

Even when the drive is isolated from main power, the SVX9000 control logic module can be programmed and tested. The module can be powered from an external +24 Vdc source so you're ready to train, test and go live whenever needed. Whether you choose local or remote operations via the keypad, simple copy-and-paste functions streamline the process.

Communication flexibility

The SVX9000 may be configured with several different communication protocols, making it easy to communicate with all commonly used control systems. The control unit's powerful microprocessor can be used for local control tasks, thereby freeing resources of the control system for other control tasks. 9000XEngine, our versatile block-programming tool, eliminates the need for a PLC and significantly simplifies the control system.

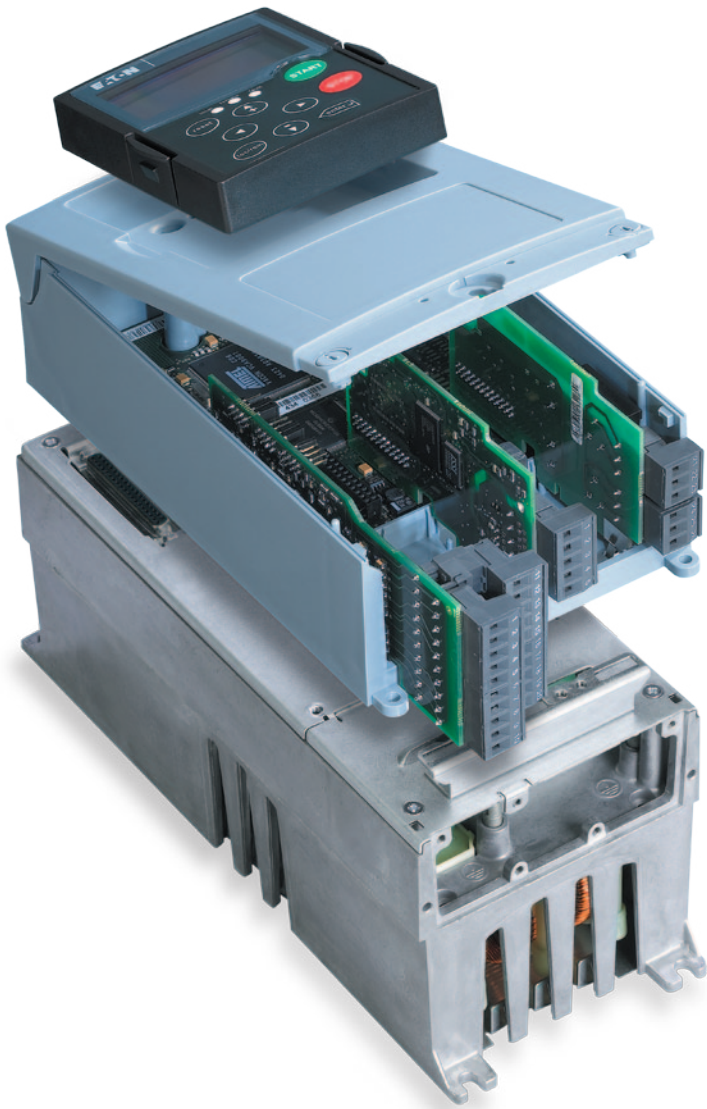
Optional I/O: configuration simplified

Up to five plug-and-play I/O cards, each with unique input and output configurations, can be installed. Multiple analog and digital input and output cards and additional application-specific hardware are available.

EATON

Powering Business Worldwide





Multiple communication protocols allow connectivity to any existing automation system

- Modbus® TCP
- EtherNet/IP
- Modbus
- PROFIBUS® DP
- LonWorks®
- CAN
- DeviceNet™

Seven built-in applications

Use for material handling, extruders, mixers, pumps, fans, cranes and more.

- Basic
- Standard
- Local/remote control
- Multi-step speed control
- PID control
- Multi-purpose control
- Pump and fan control with auto-changeover

Power module

- 3/4 hp to 2000 hp
- 208/230V, 480V, 575/690V
- Semiconductor technology
- Connections via multi-pole connector
- Remote mount with a fiber optic cable
- 208/230/480 Vac frame sizes 4–6 equipped with a built-in brake chopper

Power unit options

- Input and output filters
- Brake resistors
- NEMA® Type 1 (IP21) NEMA Type 12 (IP54)
- Open chassis frame 10 and larger

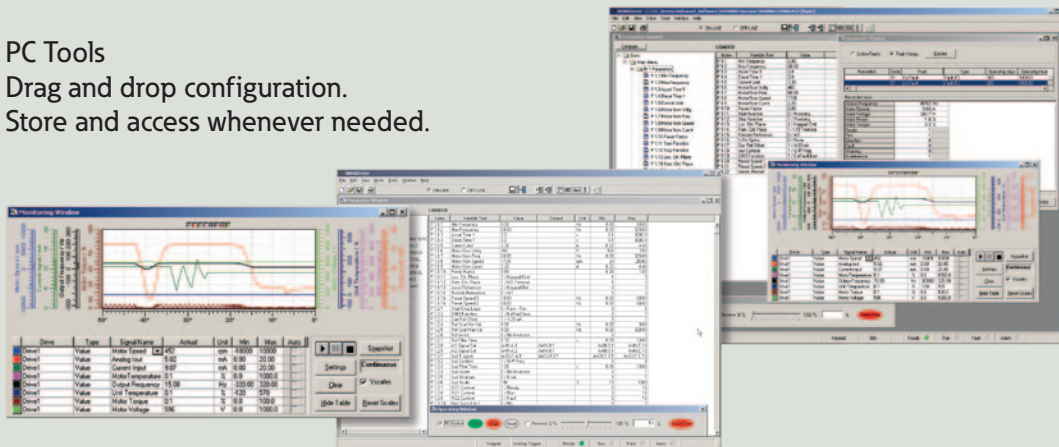
Power supplies

- +10 Vdc reference
- +24 Vdc auxiliary
- Encoder (+15 Vdc/+24 Vdc) SVX9000 enclosures
- Standard NEMA Type 1 (IP21)
- Sealed NEMA Type 12 (IP54) (metal cover, internal fan, conduit plate)

PC Tools

Drag and drop configuration.

Store and access whenever needed.



9000XLoad

9000XLoad is an easy-to-use tool for uploading system, application and option card software intended for use by engineering, commissioning and service personnel. 9000XLoad is also suitable for loading custom applications to the SVX9000 drive.

9000XDrive

9000XDrive is a software tool that allows uploading and downloading drive parameters. Parameters can be changed, saved and uploaded to any number of SVX9000 drives. The tool has the ability to print parameters or save them to a file for future use and reference.

Parameters can be compared to default values to determine drive setup. Operator functions include the ability to set references, start and stop the drive, and monitor signals and actual values. These values can be displayed via a graphic display.

The SVX keypad provides a window into the drive

The SVX9000 keypad and display unit

The SVX9000 keypad offers the user a full view into the drive. The keypad provides the ability to view and change parameters, as well as monitor actual running values. Built-in upload and download capability makes programming several SVX9000 drives a snap, cutting

installation time. The three-line alphanumeric programmable display with status indicators uses English words for parameters, status and diagnostic messages without the use of codes and lookup tables. The display has large, clear characters easily visible in any light condition.

Horsepower	Voltage Range	Enclosure Style
3/4 to 100	208, 230	Type 1, Type 12
1 to 200	380, 480	Type 1, Type 12
250 to 1900	480	Open chassis
2 to 150	575, 690	Type 1, Type 12
200 to 2000	575, 690	Open chassis

SVX9000 Series at a glance

- Wide range of horsepower and voltage selection
- Startup wizard
- Modular design concept
- External +24 Vdc can be used to power the controller
- Built-in 3% line reactor
- Open and enclosed drives (CT/IH rated to 50°C)
- 30-fault history with status at time of fault
- Easy operation

SPX9000 Series at a glance

- High performance for demanding applications
- Increased microprocessing power (CPU clock speed now 42% faster)
- Encoder feedback
- High-resolution analog inputs
- Speed and torque loop capability
- Customizable software
- Same ease of operation

Compare Parameter Changes to Default Values

Display Three Monitor Values Simultaneously

Intuitive Parameter Menus

Bright LCD Screen

Copy Parameters to Other Drives

Three LED Status Lights

Password Protect Parameters

Local/Remote Button on Keypad





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