



VX2 - 1000V VARIABLE FREQUENCY DRIVE

1140V LIQUID-COOLED VFD MODULES
FOR MINING APPLICATIONS



PROCESS AUTOMATION AND PRODUCTIVITY IMPROVEMENTS

A Saminco variable speed drive offers total control of motor speed without sacrificing torque. The speed can be controlled locally (manually), remotely or automatically using internal or external controls. The optimum speed for a process can be adjusted quickly and easily by an operator or process controller.

REDUCED MECHANICAL STRESS MOTOR AND LOAD

A Saminco variable speed drive controls the rate of acceleration and deceleration allowing a perfect soft start and soft stop to be achieved. A controlled soft start will reduce the mechanical stress on the motor shaft and load.

LESS DEMAND ON ELECTRICAL SUPPLY INFRASTRUCTURE

The reduction in starting current and the improved power factor reduces the demand on the electrical infrastructure and can reduce the size of stand by generators.

ENERGY SAVINGS AND IMPROVED RESOURCE MANAGEMENT

A Saminco variable speed drive enables a reduction in speed when operating at full power or capacity is not required. On variable torque loads such as fans and pumps, a reduction in speed can result in substantial energy savings. Energy savings typically result in less than one year ROI.

FLEXIBLE DESIGN CONFIGURATION

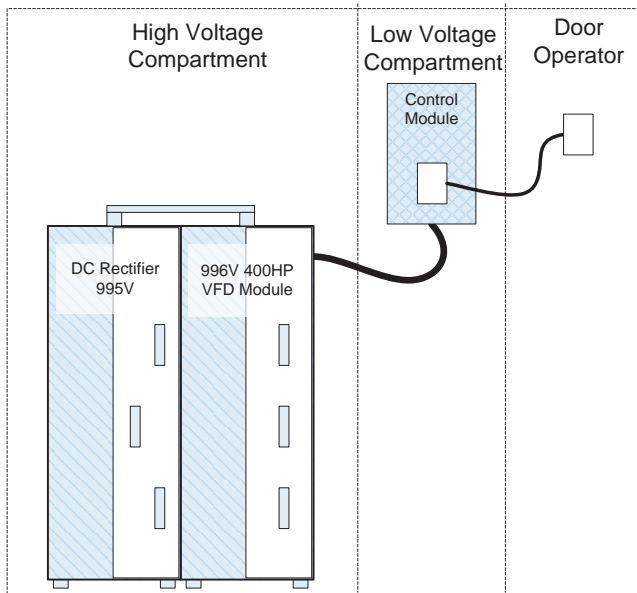
The Saminco 1140V VFD system design allows for maximum flexibility and user safety.

- Four axis mounting orientation
- Ease of remote monitoring / control
- Overvoltage / under voltage protection
- PID control, Signal Follower control
- Separation of high and low voltage
- Quick disconnect I/O terminals
- O/L, GF and overcurrent protection
- Torque control, load sharing control

TYPICAL FIVE VFD MODULE CONFIGURATION (DESIGN)



VFD SYSTEM (SINGLE SYSTEM SHOWN)



- Modular Design
- Multiple VFD capable via common DC bus
- Solid State pre-charge circuit
- Safe design:
 - ◇ Rectifier and VFD modules located in separate high voltage compartment
 - ◇ Control module remote mounted up to 15 ft in low voltage compartment
 - ◇ Digital operator / programmer door mountable
- V/Hz, open loop vector or closed loop vector control
- All major serial communications supported

APPLICATIONS

- ◇ Above ground conveyors
- ◇ Below ground conveyors
- ◇ Fans
- ◇ Pumps
- ◇ Compressors
- ◇ Crushers

995V CONTROL MODULE / OP STATION

Saminco part #: A800490



The most I/O of any drive for demanding applications!

- 12 optically isolated digital inputs
 - ◆ 10 multi-function, 2 for start / stop
 - ◆ Sinking / sourcing selectable
 - ◆ Internal or external powered (24VDC)
- 6 Digital outputs
 - ◆ 1 dedicated NO / NC Form C Fault Relay
 - ◆ 3 multi-function Form A Relays
 - ◆ 2 multi-function open collector
- 32kHz pulse train input and output
- 3 (2 multi-function) +/- 10VDC / 4-20mA analog inputs
- 2 multi-function +/-10VDC / 4-20mA analog outputs
- RS-485/422 Modbus RTU at 19.2kbps
 - ◇ Internal selectable terminating resistor switch

DIGITAL OPERATOR / PROGRAMMER





- LCD Digital Operator
- 5 line x 16 characters
- Copy keypad standard
- Backlit display
- Quick start menu
- 32 user parameters
- Modified parameters display
- Monitor display 93 viewable)
- Application specific software (CASE)
- Fault trace
- Fault history (last 10 and time stamp)
- RJ-45 connector

ASK ABOUT OUR OTHER PRODUCTS...

YASKAWA

MV1000
 MEDIUM VOLTAGE AC DRIVE
 175 HP TO 16,000 HP

SAMINCO
 international

World Class
Conveyor Controllers

VX1 Series
 Feeder-Breaker Conveyor Controller
 230 to 600VAC - Up to 500HP



ELIMINATES

- Shear Pin Trips
- Broken or Bent Chain Flights
- Chain and Sprocket Wear
- Shock Loading of Gearboxes

PATENTED 3 LEVEL VFD CONTROL


- Allows retrofit of existing Standard AC Motors
- Reduced motor heating
- Eliminates electrical noise Associated with standard VFD controls

- Reduced Down Time
- Reduced Maintenance
- 1 year Warranty, Parts and Labor
- Start Up Included
- Local 24/7 Support
- Turnkey Solutions from Saminco
- Custom Controls Available


Ask about our SWAP TEAM service:
 Saminco can retrofit your Feeder Breaker
 System in the field at your site!

SAMINCO
 international

MEDIUM VOLTAGE MOTORS




Up to 15,000 kW / Up to 13.2 kV (50/60Hz)
 TEFC, TEAAC, TEAO, ODP, WPI, WPII,
 Water-Cooled, Pipe-Ventilated
 and Explosion-Proof
 IEC & NEMA



CE UH SP

SOLCON
 USA



HRVS-DN
 Medium Voltage Soft Starter 2.3kV to 15kV

spanning the globe
 servicing your industry
 supporting your application

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