

VX1 3-Level Inverter

230VAC up to 150HP

480VAC up to 500HP

SAMINCO
ELECTRIC TRACTION DRIVES

Worlds First 480V 3-Level Inverter (patented)

Suitable for:

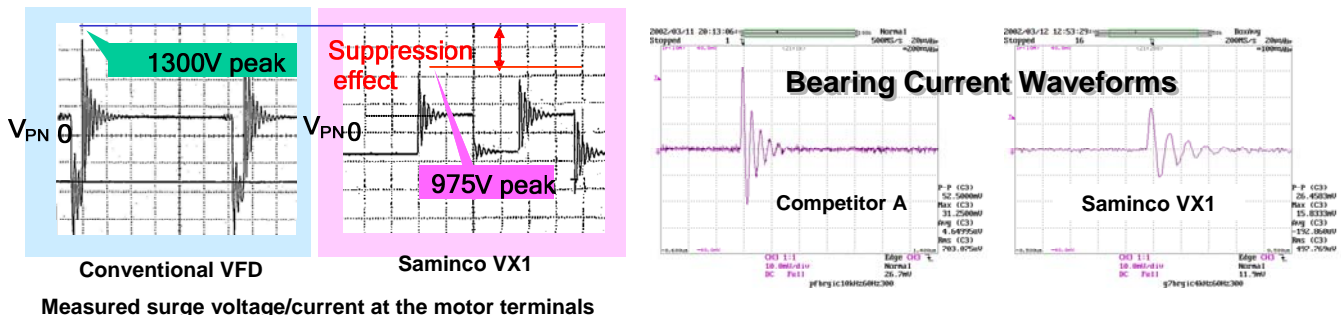
Feeder-Breaker Conveyors Open Loop Torque Control
Pumps Dual Motor Load Sharing
Ventilation Fans
Vibratory Feeders/ Screeners
Conveyors



The VX1 Inverter has the first 480V 3-level switching inverter architecture that eliminates installation problems associated with typical IGBT inverters and protects the entire motor-drive system.

VX-1 3-Level Technology Benefits:

- The VX1 allows for operation at very long cable lengths, meeting NEMA MG1 Part 31, with peak output voltages 30% less than conventional VFD's. Eliminating the extra expense of DV/DT filters and increased motor life.
- 3 level operation reduces motor bearing currents by 50% over typical VFD's, providing four times the motor bearing life.
- 3 level operation reduces electrical noise or common mode currents by 50% over conventional VFD's. This noise sometimes causes interference with sensors, encoder signals, metering and nuisance GFI trips.
- 3 level operation reduces audible motor noise by 5-10dB(20%)



The VX1 allows for ease of set up and commissioning

Quick Programming Mode:

- The VX1 has a "quick programming mode" which directs you through the basic programming parameters which covers 90% of most applications.

Motor Auto Tuning:

- The VX1 3 auto tuning modes which automatically sets all motor data for optimum operation .
- The Auto tuning can be done statically (coupled motor) or dynamically (uncoupled motor)

LCD Operator with Copy Function:

- This allows for the keypad to be removed to transfer parameter files to other drives.
- In the event of a drive failure, the keypad can be removed and installed on the replacement drive for quick set up.

Drive Wizard / Drive Doctor

- Upload and retrieve parameter data from a drive or file.
- Contains parameter conversion tools to convert one drive family parameter files to another drive family (VX1 to VH1)