

VARIABLE FREQUENCY DRIVES (VFD)

Customer-Focused Sales, Service and Energy Cost Savings

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IPS VFD Engineers and Technicians are experienced and OEM factory trained

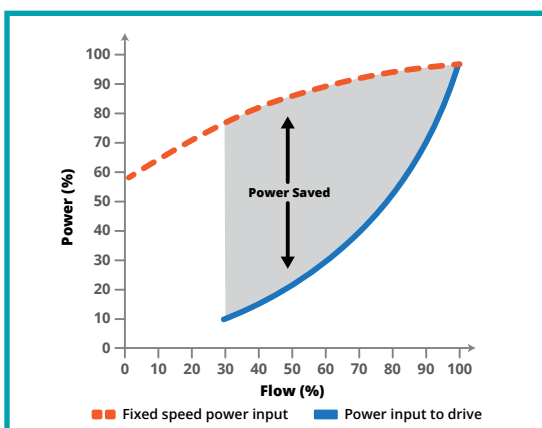
- OEM factory trained VFD Engineers & Technicians
- VFD commissioning, trouble shooting & application consulting
- Free energy evaluation & automated testing
- VFD and electric motor drive packages
 - » Small low HP applications
 - » Large MW applications
 - » Extended warranties available
- Stock VFD Inventory:
 - » Various Manufacturers & Models
 - » Quick Turnaround

Maximize motor life

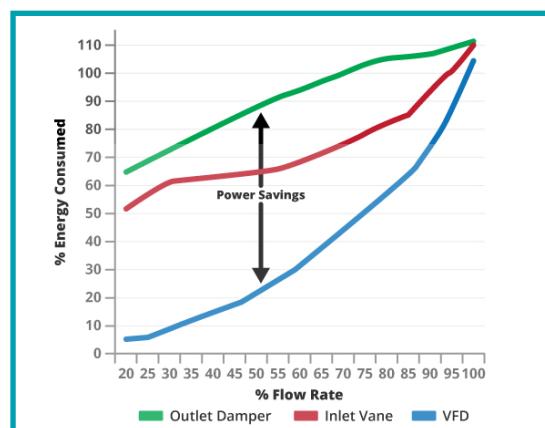
VFD's can minimize the electrical stress felt by the motor during start-up. Unlike across the line starts where a motor experiences full voltage and a very high immediate in-rush current, a VFD can slowly increase the voltage applied to a motor. This will produce a gradual increase in the current and torque as well, resulting in a controlled low stress start-up.

Minimize energy costs

VFD's control AC motor speed and torque by varying motor input frequency and voltage. Many fixed-speed motor load applications can save energy costs when they are operated at variable speed by means of a VFD. The potential for such energy cost savings are especially pronounced in variable-torque centrifugal fan, pump and compressor applications, where the load's torque and power will vary with the motors speed. For example, at a relatively small reduction in speed, a motor load might only consume 25% of its full-speed power thus providing a huge energy cost savings. The charts below show some typical power curves for a pump and fan application. Call IPS for a free energy evaluation on any centrifugal application.



VFD-PUMP APPLICATION



VFD-FAN APPLICATION

AUTHORIZED SIEMENS SINAMICS VFD DISTRIBUTOR

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Drive and motor packages purchased thru IPS receive an increased warranty period



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Siemens Sinamics DCM

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*Innovative DC-DC converter for
industry & smart grid applications*



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*Static excitation systems for new
plants & modernization projects*