

It's all about saving your money!



ACTIVE DYNAMIC FILTER (ADF) STATCOM

Technology that makes ENERGY more efficient.

European, Sweden based engineering technology, ADF Power Tuning provides unique way of saving energy in vast range of applications such as Foundries, Textile, Power Generation utilities, Industries etc.

ADF STATCOM is a high power, utility grade, low voltage STATCOM for heavy industrial loads. It provides unique dynamic Reactive Power Compensation for critical applications such as arc furnaces (EAF's), Solar and Wind plants, Captive Power plants. Cement plants operating on captive Power connected to grid for stability of operations. Ideal for achieving optimum billing in KVAh operation by using it as fine compensation system.

Features of ADF Module

- ▶ Compact and Modular design, 3 wire
- ▶ Simple installation. Easy to integrate
- ▶ Current and Sensor less control
- ▶ Able to compensate with high efficiency
 - Harmonics (up to 49th harmonic)
 - Reactive power – Dynamic KVAh compensation
 - Unbalance
 - Voltage variations (flicker)
- ▶ Insensitive to network conditions
- ▶ High Performance and Reliability
- ▶ Narrow and tall design saves space
- ▶ Wide range of current ratings
- ▶ Non-overloadable



Major Components

A. Inverter Module

- ▶ Compensation powers from 35KVA to 15MVA can be built with simple building blocks
- ▶ Allows flexibility and competitiveness
- ▶ Choose voltage: 208 – 480 V
480 – 690 V
- ▶ Chose cooling media: Air Liquid
- ▶ Module includes fan, pre-charger, contactor



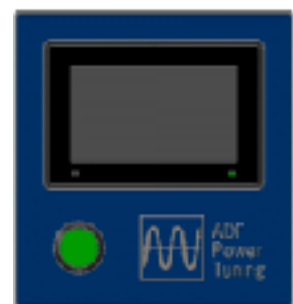
B. SSC2 Control Computer

- ▶ Control upto 3 or 6 modules with one computer
- ▶ Ethernet :-Integrated Web Server - ADF Dashboard
- ▶ Modbus TCP
- ▶ Multi-master support
- ▶ Voltage (PT) and CT inputs
- ▶ Relay outputs/inputs



C. HMI Display

- ▶ Easy to mount in any panel door
- ▶ Two versions available
- ▶ HMI-B (Basis HMI with only an indication button)
- ▶ HMI-E (Extended HMI with indication button and 4.3" display)





ADF TECHNOLOGY HELPS YOU TO SAVE:

1. SPACE

Since one module supports multiple drives, you can save space and ensure flexibility for the future.

2. MONEY

Since one module supports multiple drives, you can save space and ensure flexibility for the future.

3. TIME

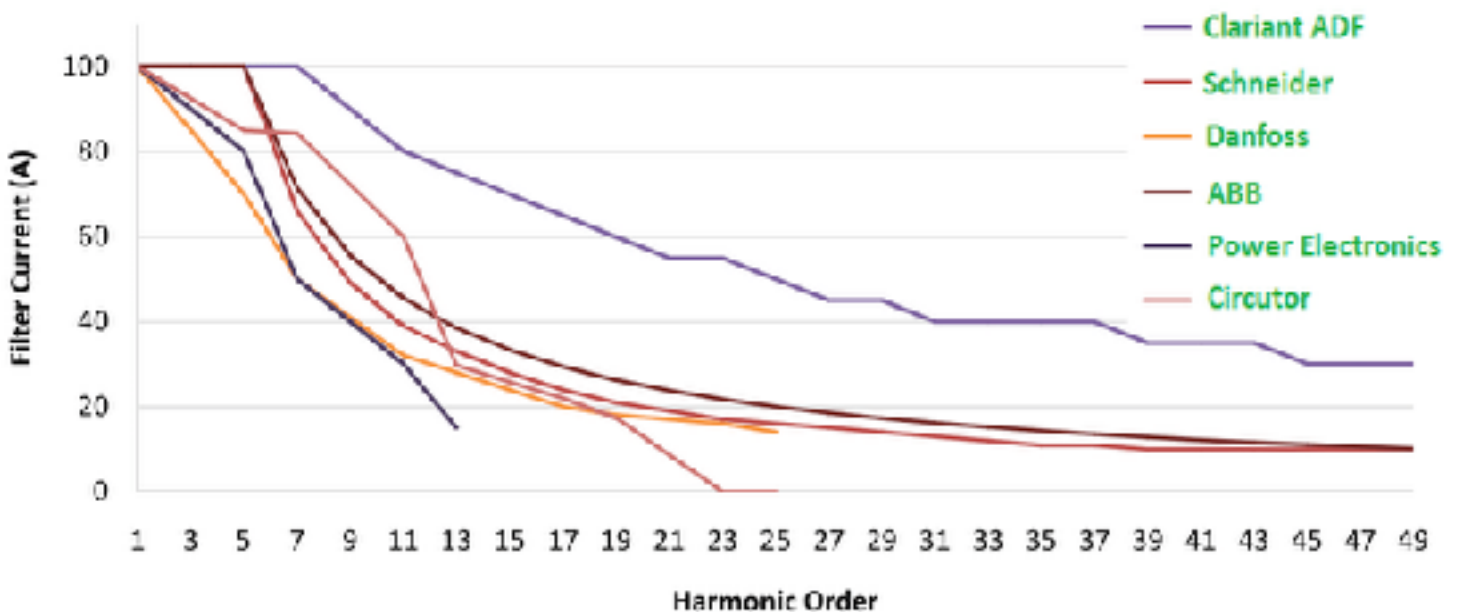
Avoid unnecessary downtime for Maintenance or replacement of equipment affected by power quality issues

4. HASSLE

ADF-type technology is already being included in regulatory demands and equipment warranties – a trend that will only continue to grow

Comparison with different makes:

Zero to Nominal De-rating for significant Harmonic Frequencies





Applications

- ▶ Steel and Rolling Mill industries
- ▶ Electric Arc Furnace, Induction Furnace
- ▶ Captive Power Plants
- ▶ Utilities, Electricity boards
- ▶ Solar and Wind Power Plants
- ▶ Commercial buildings, Data centers
- ▶ Cranes, Hoists etc
- ▶ Offshore



Major Projects

- ▶ 40MW Malwa Solar Generation plant in MP.
- ▶ Chennai Metro Rail Corporation, Chennai.
- ▶ Ultratech Cement, Chittorgarh.
- ▶ Danang Rubber Company, Viet Nam.
- ▶ Thermax Limited



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