

D-VAR® RT System for Meeting Grid Interconnection P.O.12.3 Requirements

Connecting with the Wind™

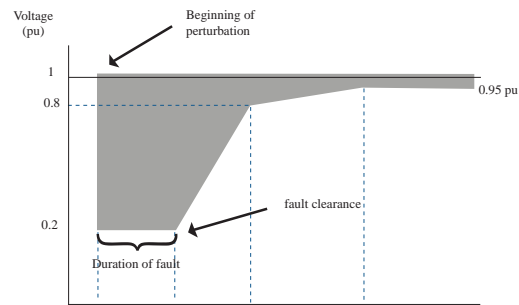
- Designed to comply with ride-through specifications of P.O.12.3

- In-turbine installation

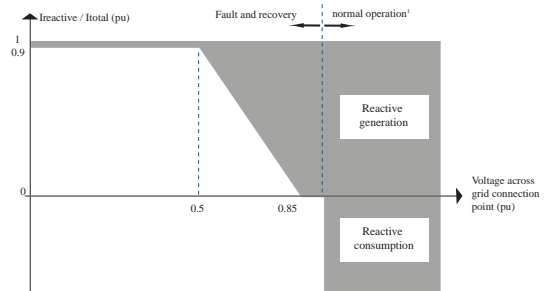
- Option for steady-state power factor control

AMSC's newest dynamic reactive power product is the D-VAR RT system designed to assist new and existing wind turbines in meeting even the most restrictive grid interconnection requirements. This patent-pending product brings a powerful solution to operators of existing wind turbines that are facing challenges due to the new regulatory requirements such as the Spanish grid interconnection requirement P.O.12.3.

The D-VAR RT in-turbine system is a powerful, cost-effective technology that dynamically stabilizes the wind turbines and also can act to regulate the voltage of the collection system connecting to the power transmission grid. Problems solved by the D-VAR RT system include voltage regulation, power factor correction and low- and high-voltage ride through.



P.O.12.3 LVRT Requirement



P.O.12.3 Ireactive/Itotal Requirement During transient Events

To meet the P.O.12.3 requirement described in the figures above, the AMSC D-VAR RT is installed in the turbine and contains highly tolerant power electronic components and controls that allow the turbines to ride through a wide range of system disturbances. The D-VAR RT also has an option for adding steady-state power factor control.

AMSC's patented D-VAR® reactive compensation systems currently support an estimated 2,800 MW at 40 wind farms in 7 countries.

About American Superconductor

American Superconductor Corporation (NASDAQ: AMSC) products, services and system-level solutions enable cleaner, more efficient and more reliable generation, delivery and use of electric power. AMSC (headquartered in Devens, Massachusetts, USA) is a leader in alternative energy, offering grid interconnection solutions as well as licensed wind energy designs and electrical systems. AMSC Windtec GmbH (a subsidiary of AMSC) develops, licenses and improves 850 kW to larger than 8 MW wind systems worldwide.



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