

ELECTROMECHANICAL SYSTEMS BASED ON DOUBLY-FED ELECTRIC MACHINE



Adjustable electric drive of 750 kW pump based on doubly-fed electric machine

Areas of Application

The electromechanical systems based on doubly-fed electric machine are designed for wind turbines and adjustable electric-drive systems

Specification

Power output ranges from 100 to 1000 kW

Stage of Development. Suggestions for Commercialization

IRL7, TRL6

Design, manufacture, delivery, warranty service, and staff training, upon request

Advantages

As compared with the conventional adjustable electric drives (that use the asynchronous engine with squirrel-cage rotor), the systems based on doubly-fed electric machine are notable for lower cost of voltage converter; adjustable reactive power consumed by the electromechanical system from power supply network; higher efficiency of the entire system; sinusoidal stator and rotor currents; the ability to generate electric power with given parameters at a variable speed of the primary mover

IPR Protection

IPR1

Contact Information

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