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The invention relates to the field of electrical engineering and wind-power engineering and may be used in the wind turbine generators for wind flow kinetic power conversion into electric power.
The device contains a windmill, an induction generator, a rectifier, a capacitor bank, connected to the inducing winding of the generator, and to the rectifier, and two voltage transducers, the output of the first transducer being connected to the leads of the capacitor bank. The electromagnetic relay with break and make contacts provides for the connection of the connected capacitors to the inducing winding of the generator according to the signal of the first voltage transducer. The break contacts provide for the short-circuit of the outputs of both capacitor banks and of the inputs of the three-phase rectifier, providing their galvanic connection. The inputs of the first and second voltage transducers are connected in parallel and the output of the second transducer, by the time-to-pulse converter, controls the electronic switch functioning, which is connected in parallel to the resistance which is the loop of the three-phase rectifier. The voltage transducers have hysteresis operation characteristics and the hysteresis loop of the first transducer is broader than the hysteresis loop of the second transducer controlling the electronic switch opening.

Claims: 1
Fig.: 1