

عنوان مقاله:

COMPARISON OF ALTERNATIVE CONFIGURATIONS FOR A HIGH SPEED ALTERNATOR FOR
MICROTURBINES

محل انتشار:

بیست و یکمین کنفرانس بین المللی برق (سال: 1385)

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خلاصه مقاله:

High speed machines are one type of electric machines that have application in high speed compressors, machine tools, energy strong systems, and particularly electric energy generation. The letter object that can be accessed by direct coupling of high speed generator (microgenerator) to shaft of a microturbine with speed rang of 50,000 to 150,000 r.p.m. is due to select a special structure for microgenerator, so that, selection design analysis, and specially manufacturing of it would be very sensitive. Microgenerator mostly have disc and round rotor structure type and excite with rare earth permanent magnets (PMs) installed on the high speed rotor. In this paper after presentation the principal and general considerations for design, and analysis and results of some detailed designs, two intended structure analyzed based on feasibility study for manufacturing in the country, manufacturing technology, raw material and performance considerations, and finally one of these two types has selected for detailed design

کلمات کلیدی:

High speed generator, Cylindrical type rotor, Disk type rotor, Design

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