DEVELOPMENT EXPERIENCE OF BRUSHLESS DC MOTOR WITH VARIOUS METHODS OF PERMANENT MAGNETS PRODUCTION

ABSTRACT  In the paper estimation of machining influence of samarium-cobalt permanent magnets on the aircraft brushless DC electric motor parameters is carried out. As a result of machining of permanent magnets in magnetized state, the experimental confirmation of deteriorating of the brushless DC electric motor parameters was received.

Keywords: AEA - all electric aircraft, aircraft systems, permanent-magnet machine, brushless DC electric motor, samarium-cobalt permanent magnet, machining