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SOME ASPECTS OF LOADING SMALL HIGH-SPEED ELECTRIC MOTORS UNDER TEST

ABSTRACT *Following paper presents some considerations about modern small high-speed permanent magnet brushless direct current motors and possibilities of testing their mechanical characteristics. Usage of eddy current brake is described as well as a testbed and an experiment. Measured characteristic of tested motor is shown with some remarks about usage and design of eddy current brake intended to work with speed up to 50000 rpm.*

Keywords: *Eddy current brake, BLDC motor testing, high speed test brake*