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FLUX OBSERVERS APPLIED ON A THREE PHASE INDUCTION MACHINE

BY

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Abstract. In this paper is presented a comparison of performances between three rotor flux observers. Starting from the three-phase induction motor model it is studied the observers' stability and parameters adjustment, as well as the sensitivity to the variation of motor parameters, respectively to rotor resistance variation. At the end of the paper there are presented the simulation results obtained using MATLAB/SIMULINK simulation environment.

Keywords: three-phase induction motor, field-orientation-flux-observer, Gopinath flux-observer, MATLAB/SIMULINK