

On-line estimation of the stator parameters in an induction motor using only voltage and current measurements

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Abstract-

This paper proposes a set of algorithms for stator parameter online estimation (stator resistance, stator inductance, and leakage inductance) of an induction motor using neither the rotor speed nor the rotor resistance. The estimation procedure is only based on stator current and voltage measurements. The algorithm performance is tested using simulation and experimental data from a commercial 15 kW induction motor

Index Terms-

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