

*induction motor, frequency control, constant
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ANALYSIS OF FREQUENCY-CONTROLLED INDUCTION MOTOR AT HIGHER THAN RATED FREQUENCIES AND A CONSTANT STATOR VOLTAGE

A technique for calculation of characteristics of an induction motor operating under conditions: the constant load torque or constant load power at frequencies higher than rated ones and the rated stator voltage is presented. For the mode of constant load power the analytical solution of frequency-controlled induction motor electric drive transients is obtained.

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