

ABSTRACTSENSORLESS ROTOR POSITION MEASUREMENT IN ELECTRIC
MACHINES

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A sensorless rotor position measurement system comprises a digital processor (6) which receives signals from current (7) and flux sensors (8,9) of the current and flux associated with a phase winding of the machine.

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The measurement of the current and flux is enabled at a predicted reference rotor position. The measurements are compared with stored values of current and flux and an error between the actual and the predicted reference position calculated. The calculated rotor position can

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then be used to predict the instant the rotor will reach the next reference position.

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