

Controlled position of induction machine without mechanical sensor has reached a very high stage of development a good dynamic performance response. However, the accuracy of the rotor position and torque need high estimation technical flux behavior in control drives. This paper deals with an improvement dynamic rotor flux observation for induction machine drives based on real parameters variation in field oriented control strategy. However, the control flux permitting the minimization power loss energy. This work presents the implementation of real flux control behavior in real time for induction machine based on digital signal processing. The Dspace DS1104 controller board is used in the implementation. The main technical control vector is applied under practical currents, voltages, position tracking measurements. All advantages of the control models are illustrated by simulation and experimental results for induction machine (3 kW/380V) drives