

ABSTRACT

VECTOR CONTROLLER FOR INDUCTION MOTOR

A vector controller for an induction motor that conducts vector control by computing a d-axis current command value, a q-axis current command value, and a slip angular frequency command value based on a torque command value, a secondary magnetic flux command value, and an induction motor constant has a means for automatically adjusting a correction value of secondary resistance. A secondary resistance correction value computing unit 10 calculates a secondary resistance correction value by using d-axis and q-axis feed-forward voltage command values, d-axis and q-axis voltage command values, a torque current command value, and a magnetic flux current command value. A vector control command computing unit 1 uses the computed secondary resistance correction value to carry out vector control of an induction motor.

(Figure 1)