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an induction motor or asynchronous motor is an ac electric motor in which the electric current in the rotor that produces torque is obtained by electromagnetic induction from the magnetic field of the stator winding an induction motor therefore needs no electrical connections to the rotor an induction motor also known as an asynchronous motor is a commonly used ac electric motor in an induction motor the electric current in the rotor needed to produce torque is obtained via electromagnetic induction from the rotating magnetic field of the stator winding the biggest advantage of ac induction motors is their sheer simplicity they have only one moving part the rotor which makes them low cost quiet long lasting and relatively trouble free dc motors by contrast have a commutator and carbon brushes that wear out and need replacing from time to time induction machines are extensively used for wind turbines up to 750 kw per unit and more a typical dual winding speed induction generator with cage rotor is shown in figure 1 9 figure 1 9 dual stator winding induction generator for wind turbines source abb wind power to electricity conversion has shown a steady growth since 1985 2 induction machines the workhorses of modern engineering stand at the intersection of electrical and mechanical prowess operating on the principles of electromagnetic induction these machines seamlessly convert electrical energy into mechanical power driving an array of industrial and commercial applications for an induction machine with n_s stator turns and n_r rotor turns running at slip s on a supply of voltage e_s and frequency f_s the rotor induced voltage and frequency e_r and f_r are $e_r = s e_s$ and $f_r = s f_s$ for a rotor current i_r the equivalent stator current i_{rs} is $i_{rs} = i_r n_r / n_s$ note that the rotor stator ratios are n_s / n_r for

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