

An AC motor is an [electric motor](#) driven by an [alternating current](#). It commonly consists of two basic parts, an outside stationary [stator](#) having coils supplied with alternating current to produce a rotating magnetic field, and an inside [rotor](#) attached to the output shaft that is given a torque by the rotating field. Where speed stability is important, some AC motors (such as some Papst motors) have the stator on the inside and the rotor on the outside to optimize inertia and cooling.

There are two main types of AC motors, depending on the type of rotor used. The first type is the [induction motor](#), which only runs slightly slower or faster than the supply frequency. The magnetic field on the rotor of this motor is created by an [induced](#) current. The second type is the [synchronous motor](#), which does not rely on induction and as a result, can rotate exactly at the supply frequency or a sub-multiple of the supply frequency. The magnetic field on the rotor is either generated by current delivered through slip rings or by a permanent magnet. Other types of motors include [static current](#) motors, and also AC/DC mechanically-commutated machines in which speed is dependent on voltage and winding connection.

History

In 1882 [Nikola Tesla](#) identified the [rotating magnetic induction field](#) principle ^[1] used in [alternators](#) and pioneered the use of this rotating and inducing electromagnetic field force to generate torque in rotating machines. He exploited this principle in the design of a poly-phase induction motor in 1883. In 1885, [Galileo Ferraris](#) independently researched the concept. In 1888, Ferraris published his research in a paper to the Royal Academy of Sciences in Turin.

Introduction of Tesla's motor in 1888 initiated what is sometimes referred to as the [Second Industrial Revolution](#), making possible both the efficient generation and long distance distribution of electrical energy using the alternating current transmission system, also of Tesla's invention (1888).

^[2] Before widespread use of Tesla's principle of poly-phase induction for rotating machines, all motors operated by continually passing a conductor through a stationary magnetic field (as in [homopolar motor](#)).

Initially Tesla suggested that the [commutators](#) from a machine could be removed and the device could operate on a rotary field of electromagnetic force. Professor Poeschel, his teacher, stated that would be akin to building a [perpetual motion machine](#). This was because Tesla's teacher had only understood one half of Tesla's ideas. Professor Poeschel had realized that the induced rotating magnetic field would start the rotor of the motor spinning, but he did not see that the counter electromotive force generated would gradually bring the machine to a stop. ^[3] Tesla would later

obtain [U.S. Patent 2,438,994](#), Electric Motor (December 1888), which resembles the motor seen in many of Tesla's photos. This classic alternating current electro-magnetic motor was an [induction motor](#).

[Michael Golubevich Dolivo-Dobrovolsky](#) later invented a three-phase "cage-rotor" in 1890. This type of motor is now used for the vast majority of commercial applications.

Squirrel-cage rotors

Main article : [Squirrel-cage motor](#)

Most common AC motors use the [squirrel cage rotor](#), which will be found in virtually all domestic and light industrial alternating current motors. The squirrel cage refers to the [rotating exercise cage for pet animals](#). The motor takes its name from the shape of its rotor "windings" - a ring at either end of the rotor, with bars connecting the rings running the length of the rotor. It is typically cast aluminum or copper poured between the iron laminates of the rotor, and usually only the end rings will be visible. The vast majority of the rotor currents will flow through the bars rather than the higher-resistance and usually varnished laminates. Very low voltages at very high currents are typical in the bars and end rings; high efficiency motors will often use cast copper to reduce the resistance in the rotor.

In operation, the squirrel cage motor may be viewed as a [transformer](#), with a rotating secondary. When the rotor is not rotating in sync with the magnetic field, large rotor currents are induced; the large rotor currents magnetize the rotor and interact with the stator's magnetic fields to bring the rotor almost into synchronization with the stator's field. An unloaded squirrel cage motor at rated no-load speed will consume electrical power only to maintain rotor speed against friction and resistance losses. As the mechanical load increases, so will the electrical load - the electrical load is inherently related to the mechanical load. This is similar to a transformer, where the primary's electrical load is related to the secondary's electrical load.

This is why a squirrel cage blower motor may cause household lights to dim upon starting, but does not dim the lights on startup when its fan belt (and therefore mechanical load) is removed. Furthermore, a stalled squirrel cage motor (overloaded or with a jammed shaft) will consume current limited only by circuit resistance as it attempts to start. Unless something else limits the current (or cuts it off completely) overheating and destruction of the winding insulation is the likely outcome.

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Robert R. Redfield



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