

ABSTRACTAPPARATUS AND METHOD FOR STARTING A SINGLE-PHASE VARIABLE
RELUCTANCE MOTOR

A single-phase switched reluctance motor is disclosed. The motor includes a stator having a plurality of projecting poles and a coaxial rotor. The stator and rotor poles may be formed from laminations of ferromagnetic material. Energizing coils are wound around one or more of the stator poles. When the coils are energized, the rotor develops torque. In one embodiment, the motor includes a motor starting mechanism which sets the rotor into motion before the stator coils are energized so that the rotor is not static when the coils are energized. In another embodiment, the motor includes a rotor positioning mechanism which positions the rotor in a preferred starting position before the stator coils are energized.

Figure 4

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