

ABSTRACT

A synchronous reluctance motor (100) has: a rotor shaft (23); a rotor core (21) which is fixed to the rotor shaft (23) and on which a plurality of flux barriers are formed; a stator core (11) on which a plurality of protruding stator teeth are formed; and multiphase armature windings (15) of a plurality of poles which are wound around the plurality of stator teeth (12). The flux barriers include a plurality of first flux barriers (41) which are formed in such a way as to be spaced out in the circumferential direction each other and extend in a radial direction, and a plurality of second flux barriers (31) which are formed in each of circumferential angular regions sandwiched between the first flux barriers (41) in such a way as to form a curved surface convex toward the center of the rotation-axis and to spread and be spaced out in the circumferential direction each other.