

ABSTRACT

5 An electric motor (2) for a clothes washing machine including the motor and
a drive, the motor having a stator (25) held outboard of a frame carrying bearings (38,
39) in which a shaft (11) rotates, the shaft carrying the rotor (21) outboard of the
stator (25), and permanent magnets (17) on an inner face of the rotor. The stator (25)
is formed as an annular helical yoke edgewise wound from a strip of magnetic material
and having an inner face and an outer face, the strip having pole pieces (8) formed
10 integrally therewith extending from one edge of the strip and the strip being edgewise
wound whereby the pole pieces coincide in stacked groups to form a plurality of poles
arrange at equally spaced intervals extending radially outwardly from the outer face of
the yoke. Energisable stator windings (26) are wound directly on the poles (8) of the
stator and are adapted to be energised through an electronic commutation circuit (65,
15 66) and the rotor (21) is mounted for rotation exteriorly of and relative to the stator,
the rotor comprising a backing ring (16) of magnetic material and a series of
permanent magnets (17) held at spaced apart intervals on an inner surface of the
backing ring (16) and opposing the poles (8) of the stator (25).

[Figure 1 is suggested for publication]