

ABSTRACT
SENSORLESS ROTOR POSITION MONITORING
IN RELUCTANCE MACHINES

5 A method of monitoring rotor position in a reluctance
machine comprises determining the rate of change of
current at a particular point at which current in the
winding is arranged to freewheel. Preferably the point
coincides with alignment of a rotor and a stator pole
10 such that the rate of change of current is predicted to
be zero. The magnitude and polarity of any variation
from the predicted rate of change indicates a rotor
position removed from the actual rotor position and
whether it is in advance of, or retreated from, the
15 predicted position.