

ABSTRACT

CONTROL OF AN INDUCTIVE LOAD

5 A switched reluctance motor controller derives an
error signal from the difference between a phase winding
current reference and the phase winding current. The
error signal is applied to a pair of hysteresis circuits
which define adjacent hysteresis bands above and below
the reference current. The outputs of the hysteresis
10 circuits are received by control logic which permits
current to be applied to the phase winding when the
current is below the hysteresis bands, removes current
from the phase winding when the current is above the
hysteresis bands and allows the phase winding current to
15 freewheel when the current is between the upper and lower
hysteresis limits.

This Sheet Has Been Replaced

