

ABSTRACTA CONTROL CIRCUIT FOR AN INDUCTIVE LOAD

5 A control circuit for an inductive load, such as a phase
winding of a reluctance motor, includes a boost flyback
converter. The controller includes a dc link capacitor
switchable across the load by means of a control switch
and a suppressor switch for controlling the application
10 of rectified current to the dc link capacitor. The
suppressor switch is operated independently of the
control switch in order to control the rectified current
so that it follows the sinusoidal input voltage waveform.
By this technique, the harmonics generated by switching
15 the rectified input current are substantially suppressed.

