

ABSTRACT**CURRENT SHAPING IN RELUCTANCE MACHINES**

- 5 A current control circuit for a switched reluctance machine provides corner shaping at the end of the active conduction period of a phase in which the phase winding is energised. The pulse width modulated firing pulses are gradually reduced in duty cycle so that the
- 10 transition between the current in the winding in the active period and the decay of current in a ramp down period is smoothed to reduce the forces leading to vibration and acoustic noise.

Figure 5b