

METHOD AND APPARATUS FOR DRIVING A POLYPHASE, BRUSHLESS DC MOTOR**ABSTRACT OF THE DISCLOSURE**

A method and circuit are presented for operating a polyphase dc motor (22) in which substantially sinusoidal drive voltages (120) are applied to the windings of the motor (22) in predetermined phases. Zero crossings of currents flowing in respective windings of the motor are detected, and phases of the drive voltages (120) are adjusted to have zero crossings substantially simultaneously with the detected zero crossings of the currents (64) flowing in respective windings of the motor. The method and circuit results in motor operation with significantly reduced acoustic motor noise.

Figure 1