

ABSTRACTA METHOD OF CONTROLLING A BRUSHLESS PERMANENT-MAGNET
MOTOR

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Disclosed is a method of controlling a brushless permanent-magnet motor. The method includes measuring a plurality of values indicative of back EMF induced in a phase winding of the motor and determining estimated phase angles associated with the measured values indicative of back EMF. The method also includes integrating the measured values indicative of back EMF to determine an integrated back EMF and integrating the estimated phase angles to determine an integrated phase angle. A peak back EMF is determined based on the integrated back EMF and the integrated phase angle, and the motor is controlled based on the peak back EMF

15 (Figure 5)