

#### APPLICATION NOTE

## Improved Universal Motor Drive

#### INTRODUCTION

Universal motors are mostly operated in AC current mode and are controlled by means of TRIACS. This widespread solution leads to a cheap electronic controller board but has some drawbacks. In particular the high peak to peak current gives poor motor efficiency and the consequential high brush temperature leads to limited motor lifetime.

When operating in DC mode, significant improvements are obtained. The RMS and peak to peak current of the motor are smaller, reducing Iron losses and brush temperature. Operating in DC mode enables shrinking of the motor size, and increasing the motor lifetime.

Operating in DC mode enables shrinking of the motor size, and increasing the motor lifetime. Furthermore, magnetic constriction of motor core and torque ripple decrease; the 100Hz noise is further reduced.

This technical note presents three solutions for motor operation in AC and DC mode, based on phase control. Motor current and motor efficiency are compared in AC and DC mode. Component selection is proposed for each case, enabling the design of a cost effective solution.

# Improved Universal Motor Drive Home Stmicroelectronics

**Yicheng Fang** 

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