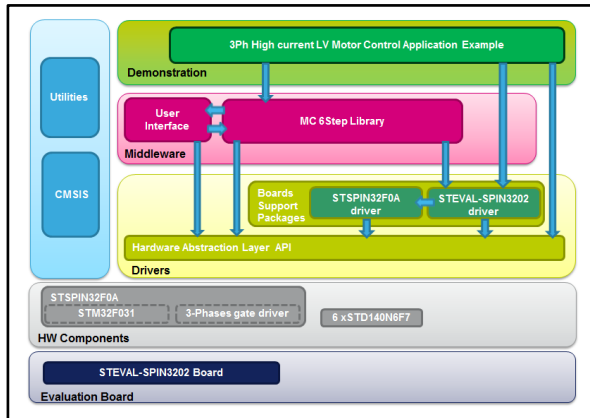


Six-step motor driving library for STSPIN32F0 and STSPIN32F0A

Data brief



Description

The STSW-SPIN3202 firmware package is a library for STSPIN32F0/STSPIN32F0A implementing six-step driving for three-phase permanent magnet (PMSM) and brushless DC (BLDC) motors.

Together with the STEVAL-SPIN3202 evaluation board, it allows the evaluation of the STSPIN32F0/STSPIN32F0A systems-in-package for six-step applications.

The firmware supports both sensorless (Back EMF sensing) and sensed (Hall-effect sensors) controls.

Features

- Six-step driving (trapezoidal)
- Speed loop in voltage mode and current mode control
- Sensorless driving with Back EMF sensing during ON and OFF phases
- Hall-effect based feedback
- Designed for the STEVAL-SPIN3202 evaluation board
- Embedded communication through serial interface
- Based on the HAL libraries for STM32

Revision history

Table 1: Document revision history

Date	Version	Changes
05-Oct-2017	1	Initial release.

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