Features

- 24V DC Shinano PMSM 3-phase brushless motor
- Motor control evaluation board featuring
  - 10-Amps 3-phase inverter
  - Single/three shunt-based motor current reading
  - Tacho/hall feedback sensors conditioning
  - On-board switched-mode power supply and wrapping area
- STM32 evaluation board (STM32F103xB) preprogrammed with sensorless PMSM motor control application, motor control connector, color LCD and user controls (push buttons, joystick, potentiometer, etc.)
- Opto-isolation board for galvanic isolation on 20-pin JTAG connection between application boards and development tools
- Segger J-Link USB/JTAG in-circuit debugger/programmer
- USB cable
- Software CD with:
  - PMSM (sensored and sensorless) and AC induction (sensored) software libraries
  - Libraries, user manuals and spreadsheets to customize control parameters of new motors and hardware documentation
  - STM32 data sheet and reference manual

Description

The STM3210B-MCKIT motor control starter kit provides a complete development platform with all the hardware and software required to get STM32-based motor control applications started quickly, and shortens time to market by allowing developers to apply what they learn in the evaluation phase to real-world applications.

Table 1. Device summary

<table>
<thead>
<tr>
<th>Order code</th>
<th>Reference</th>
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<tbody>
<tr>
<td>STM3210B-MCKIT</td>
<td>STM32-based motor control starter kit</td>
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Revision history

Table 2. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Changes</th>
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<tbody>
<tr>
<td>17-Sept-2010</td>
<td>1</td>
<td>Initial release.</td>
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