STM8/128-MCKIT motor control starter kit

Features

- Motor drive based on scalar control (BLDC or ACIM) for three-phase motors
- Position and/or speed measurement is implemented using Hall sensors or a tachometer.
- Sensorless control
- The inverter is driven using the PWM modulation technique.
- Acts as a plug-and-play demo, out of the box, with the provided BLDC motor, in sensorless speed control mode
- Operates with an AC induction motor, after reprogramming the microcontroller, in open loop or in speed control mode

Description

The STM8/128-MCKIT starter kit is an integrated system designed to provide a complete, ready-to-use motor control application developed around the STMicroelectronics STM8 microcontroller.

This starter kit is particularly suited to drive 3-phase brushless motors (either AC induction or permanent magnet types) and demonstrates how effectively the STM8 microcontrollers can be used in real-world motor control applications.

However, the main advantage of the STM8/128-MCKIT is that you can use it to create your own applications and re-program the STM8 microcontroller. You can develop your own applications using the dedicated software libraries provided in the starter kit in conjunction with a third-party IDE and C compiler.
1 Ordering information

Table 1. Device summary

<table>
<thead>
<tr>
<th>Order code</th>
<th>Reference</th>
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<tbody>
<tr>
<td>STM8/128-MCKIT</td>
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2 Revision history

Table 2. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
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<tr>
<td>27-Oct-2010</td>
<td>1</td>
<td>Initial release.</td>
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