

## MPC5643L 3-phase BLDC Development Kit

## MTRCKTDBN5643L

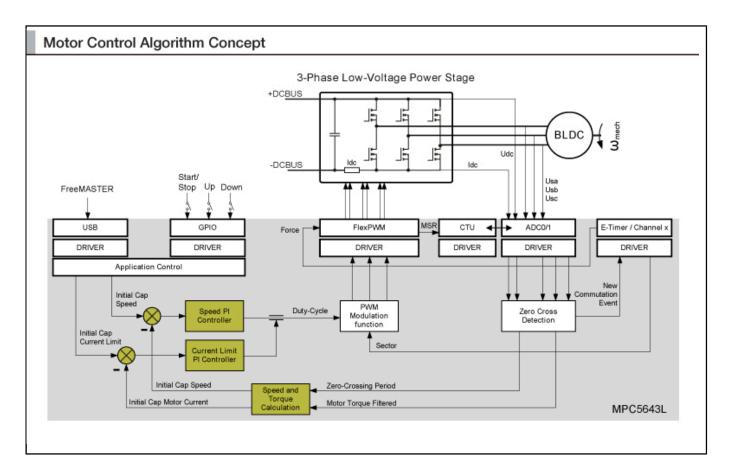
Last Updated: Nov 28, 2023

The NXP® MTRCKTDBN5643L motor control development kit is ideal for sensorless applications requiring two BLDC motors, like HVAC or electric pumps.

Designed to enable rapid prototyping and evaluation of the motor control application without having to wait for the final hardware design, the kit includes a 32-bit NXP MPC5643L based controller board and a 3-phase low-voltage power stage board.

The application software provides a complete reference implementation of the BLDC motor control application and also takes advantage of the Automotive Math and Motor Control Library Set.

## **Motor Control Algorithm Concept Block Diagram**



View additional information for MPC5643L 3-phase BLDC Development Kit.

Note: The information on this document is subject to change without notice.

## www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.