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Overview



KIT_XMC1X_AK_MOTOR_001

Description:

XMC1000 Motor Control Application Kit

Order Number: KIT_XMC1x_AK_Motor_001

Price: € 125.-

Buy Online

or please contact your local distributor:
www.infineon.com/distribution

Summary of Features:

Includes

- MCU board with XMC1300 and detachable SEGGER J-Link debug interface
- Motor Board: 12 – 24V, up to 3A, On board 3-phase motor (24V, 15W) with hall sensors, Optional encoder interface
- Power supply 24V, 1A

Supported control schemes

- V/f open loop
- Block or sinusoidal commutation with hall sensors or sensorless
- FOC with hall sensors, encoder or sensorless

Tool chain

- Fully supported by DAVE™
- APPs available for various control schemes

Technical Documentation

Documents

Title	Updates	Size	Date	Version
PCB Design Data				
PCB XMC1300 CPU Card		517 KB	23 Dec 2013	v2.0
PCB PMSM_LV15W Card		390 KB	11 Jun 2013	v1.0
User Manual				
Board User's Manual XMC1300 CPU Card		1.1 MB	23 Dec 2013	v2.0
Board User's Manual PMSM LV 15W Card		1.3 MB	24 Jun 2013	v1.0

Parametrics

KIT_XMC1X_AK_MOTOR_001		
Package Name --	Totally lead-free no	Halo-free yes
ROHS no	Packing Size 1	Packing Type TRAYS
Product Name XMC1000 Motor Control Application Kit	Configuration 12 – 24V, up to 3A	Configuration MCU board with XMC1300 and detachable SEGGER J-Link debug interface
Configuration Motor board	Configuration On board 3-phase motor (24V, 15W) with hall sensors	Configuration Optional encoder interface
Configuration Power supply 24V, 1A	Family Microcontroller (32-bit)	Target Application Motor Control
Applications -	Qualification -	Type Evaluation Board
Topology -	Input Type -	

Development Support

Documents

Title	Updates	Size	Date	Version
Getting Started				
Motor Control Application Kit with Induction Motor V/F Control App	NEW	2.9 MB	21 Mar 2014	v2.0
AC Induction Motor V/F control with Fixed Speed		4.5 MB	30 Oct 2013	v1.0
AC Induction Motor V/F control with Adjustable Speed		4.5 MB	30 Oct 2013	v1.0
Motor Control Application Kit Getting Started with BLDC Motor Block Commutation 3 Hall Sensor App	NEW	2.1 MB	21 Mar 2014	v2.0
BLDC Motor Block Commutation 3 Hall Sensor with Voltage Control		5.2 MB	30 Oct 2013	v1.0
BLDC Motor Block Commutation 3 Hall Sensor with Speed Control		4.9 MB	30 Oct 2013	v1.0
Motor Control Application Kit Getting Started with PMSM Motor Sinusoidal 3 Hall Sensor App	NEW	2.2 MB	21 Mar 2014	v2.0
PMSM Motor Sinusoidal Commutation 3 Hall Sensor with Voltage Control		5.3 MB	30 Oct 2013	v1.0
PMSM Motor Sinusoidal Commutation 3 Hall Sensor with Speed		5.1 MB	24 Jun 2013	v1.0

Control				
Motor Control Application Kit Getting Started with Induction Motor V/F Control and xSPY Apps	NEW	1.6 MB	21 Mar 2014	v2.0
AC Induction Motor Example 01 with xSPY App		5.7 MB	30 Oct 2013	v1.0
Motor Control Application Kit Getting Started with PMSM Motor Sensorless Field Oriented Control App	NEW	3 MB	21 Mar 2014	v2.0
PMSM Motor Sensorless FOC control with Fixed Speed		4.7 MB	31 Oct 2013	v1.0
PMSM Motor Sensorless FOC control with adjustable speed via POT		4.7 MB	31 Oct 2013	v1.0
Motor Control Application Kit Getting Started with PMSM Motor Sensorless Field Oriented Control with xSPY App	NEW	1.8 MB	21 Mar 2014	v2.0
PMSM Motor Sensorless FOC control with xSPY App		6 MB	05 Nov 2013	v1.0

Buy

Sales Product Name	OPN	Product Status	Order online	Package Name	Totally lead-free	Halo-free	RoHS	Packing Size	Packing Type
KIT_XMC1X_AK_MOTOR_001	KITXMC1XAKMOTOR001TOBO1	coming soon		--	no	yes	no	1	TRAYS