

Project Resources Panel

Device Resources Panel

Application Builder Panel

Composer Panel

MPLAB X IDE v6.20 - UserSide_Example: default

File Edit View Navigate Service Refactor Production Debug Team Tools Window Help

Projects Files Classes Resource ...

MCC v5.5.0

Project Resources Generate

Libraries

Motor Control

AVR16 MCU Motor Control Library

Drivers

System

CLKCTRL

Configuration Bits

Interrupt Manager

Main

Pin

Device Resources Content Manager

Libraries

Generic Driver Interfaces

Drivers

ADC

CCU

CRC

EVSYS

IC

NVM

SP

UserSide_Example Navigator Pin Package ...

Package: QFN32

Save Image

Output Notifications [MCC] Pin Grid View

Package: QFN32 Pin No. 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

Module Function Direction

PORTA 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7

PORTC 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7

PORTD 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7

PORTF 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7

Motor Control

BMF Neutral Input

BMF A Input

BMF B Input

BMF C Input

Current Sense Sum Input

Current Sense Ref Input

Voltage Sense Input

Temperature Input

Potentiometer Input

Button Input

LED output

CLKCTRL CLKOUT output

AVR16 MCU Motor Control Library

Motor Control

General Settings

Commutation Feedback Sensorless

Feedback Source Back EMF

Drive Mode Trapezoidal (Stepped Block Commutation)

Generate Example

Motor Specifications

Pole Pairs 1 4 20

Phase Advance [°] 0 13 90

Motor Startup Voltage [V] 0 3 100

Start-up Specifications

Ramp-up Time [ms] 10 1000 10000

Pin Package Panel

Pin Grid Panel