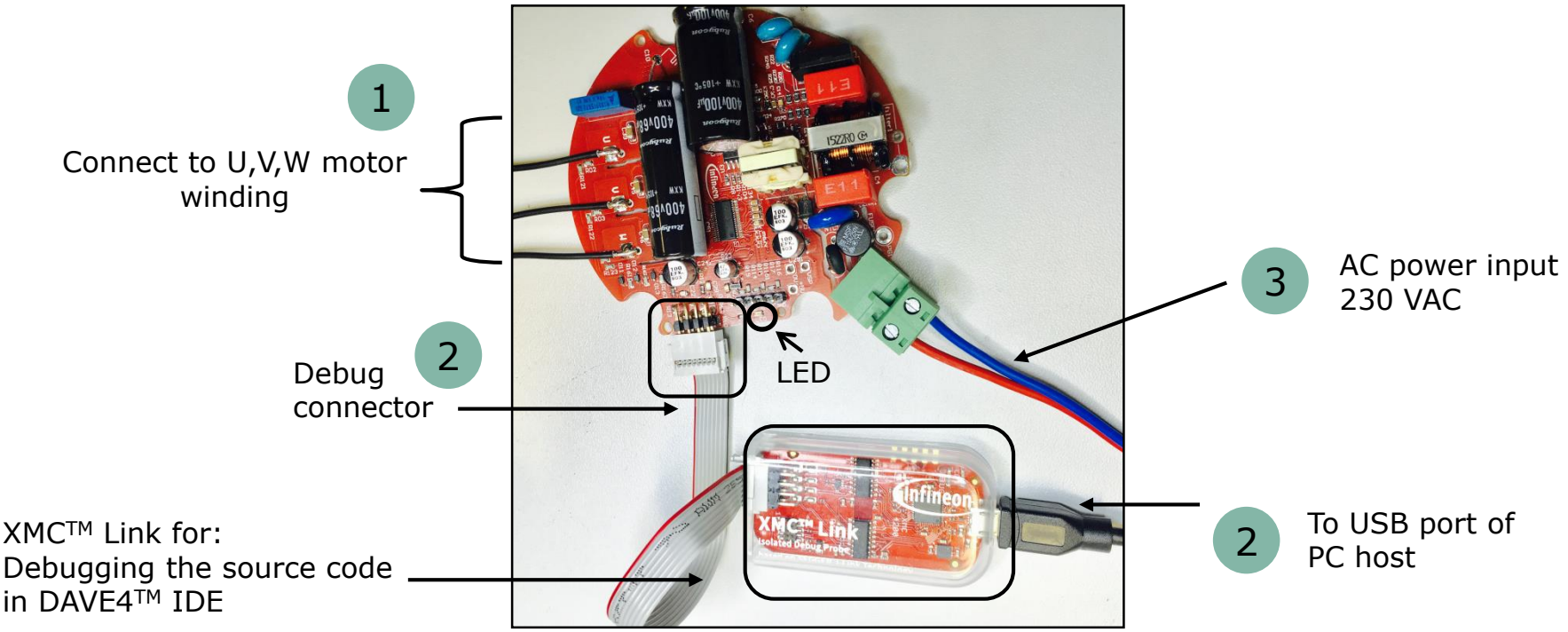
EVAL_100W_DRIVE_CFD2
Test report

- restricted -

100 W motor drive evaluation board Hardware Connections

To properly setup the board, follow these steps:

1. Connect 3 phase motor wiring to ‘U V W’ connector
2. Connect XMC™ Link’s ribbon cable to pin 1 of Debug connector and connect to PC via micro-B USB cable
3. Connect AC source to EVAL_100W_DRIVE_CFD2 board



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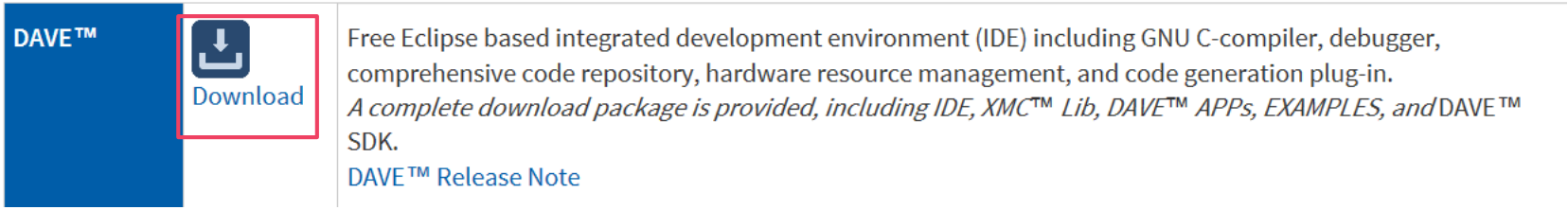
100 W motor drive evaluation board
DAVE™ 4 Setup

- **Download DAVE™ 4 installer package from:**

  www.infineon.com/dave

  1. Download and unzip the installer package



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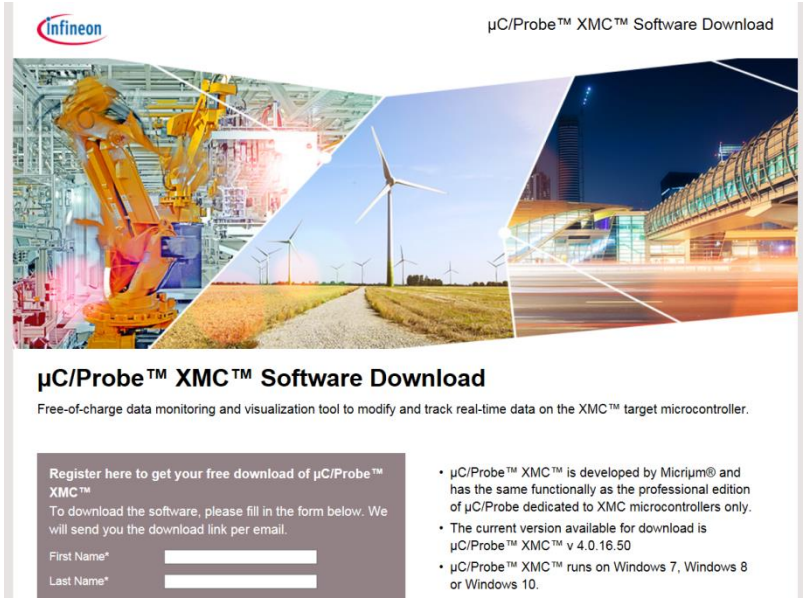
100 W motor drive evaluation board
Micrium µC Probe™

- **Download Micrium µC Probe™ for XMC™ installer package from:**

  www.infineon.com/ucprobexmc

- **Installation Requirements:**

  1. PC with Windows Vista, Windows 7, Windows 8, Windows 10 – 32 bit & 64 bit
  2. RAM – 3 GB or more



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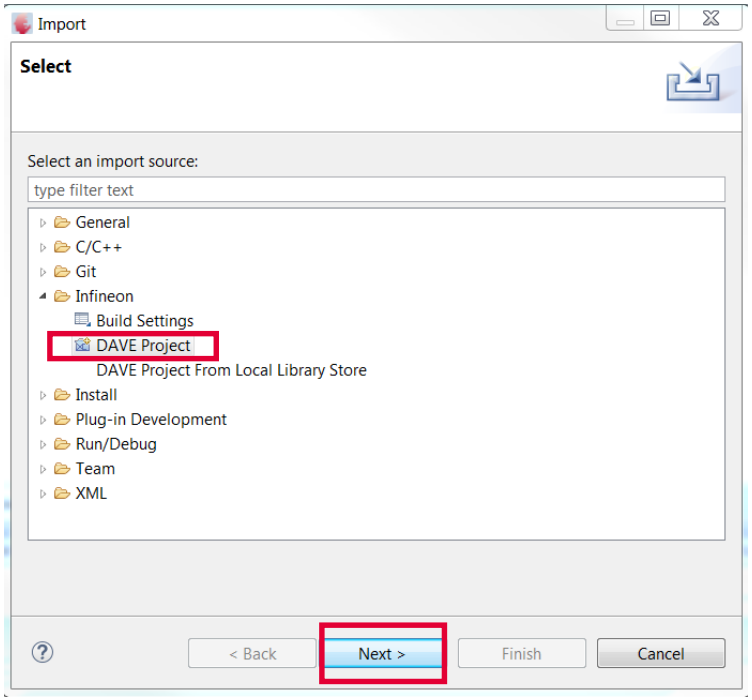
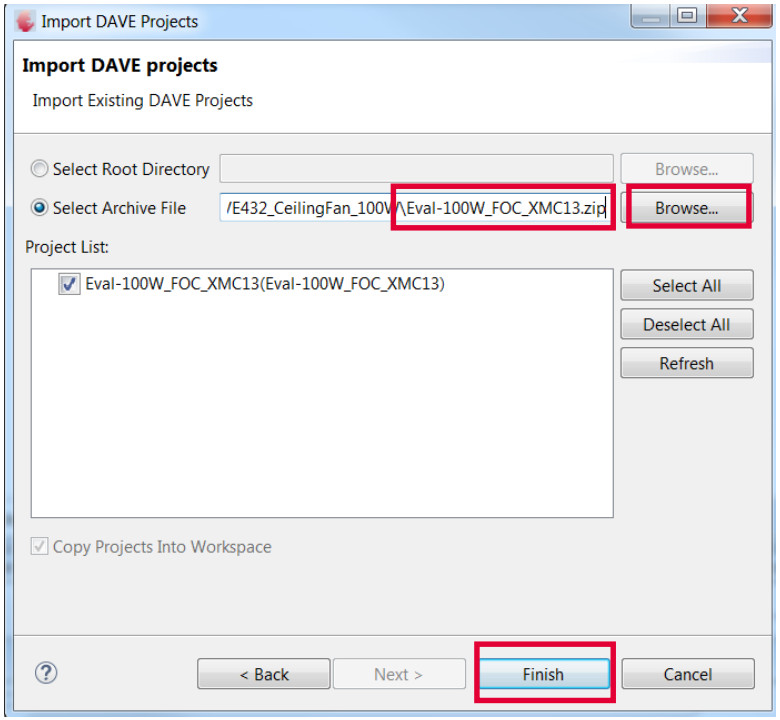
100 W motor drive evaluation board
Getting started – Import the *.zip project

1. Import the *.zip file into DAVE™ 4 IDE by click on File->Import…
2. Select Infineon->DAVE Project, click 'Next >' button
3. Click 'Browse' and navigate to *.zip file location
4. Click 'Finish' button





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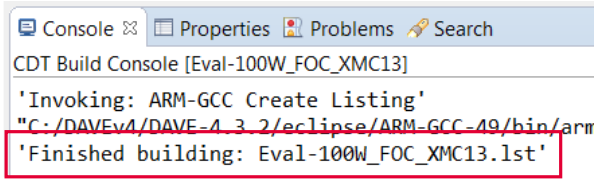
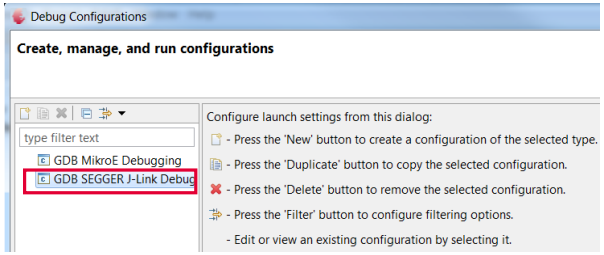
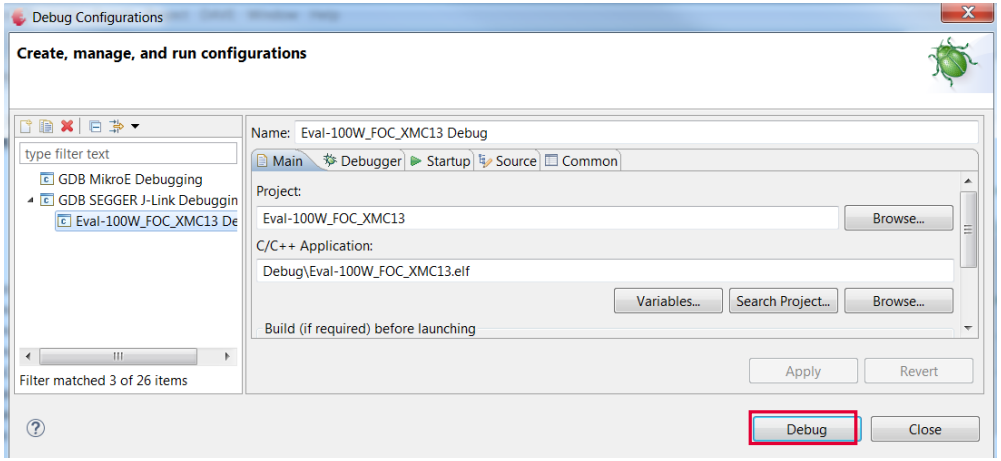
100 W motor drive evaluation board
Compile and download the code

1. Click 'Build Active Project' 
2. Check 'Eval-100W_FOC_XMC13.lst' created
3. Click 'Debug Configuration' 
4. Select 'GDB SEGGER J-Link Debugging'
5. Click 'Debug' button to download the code
6. Click 'Resume' button to start the application







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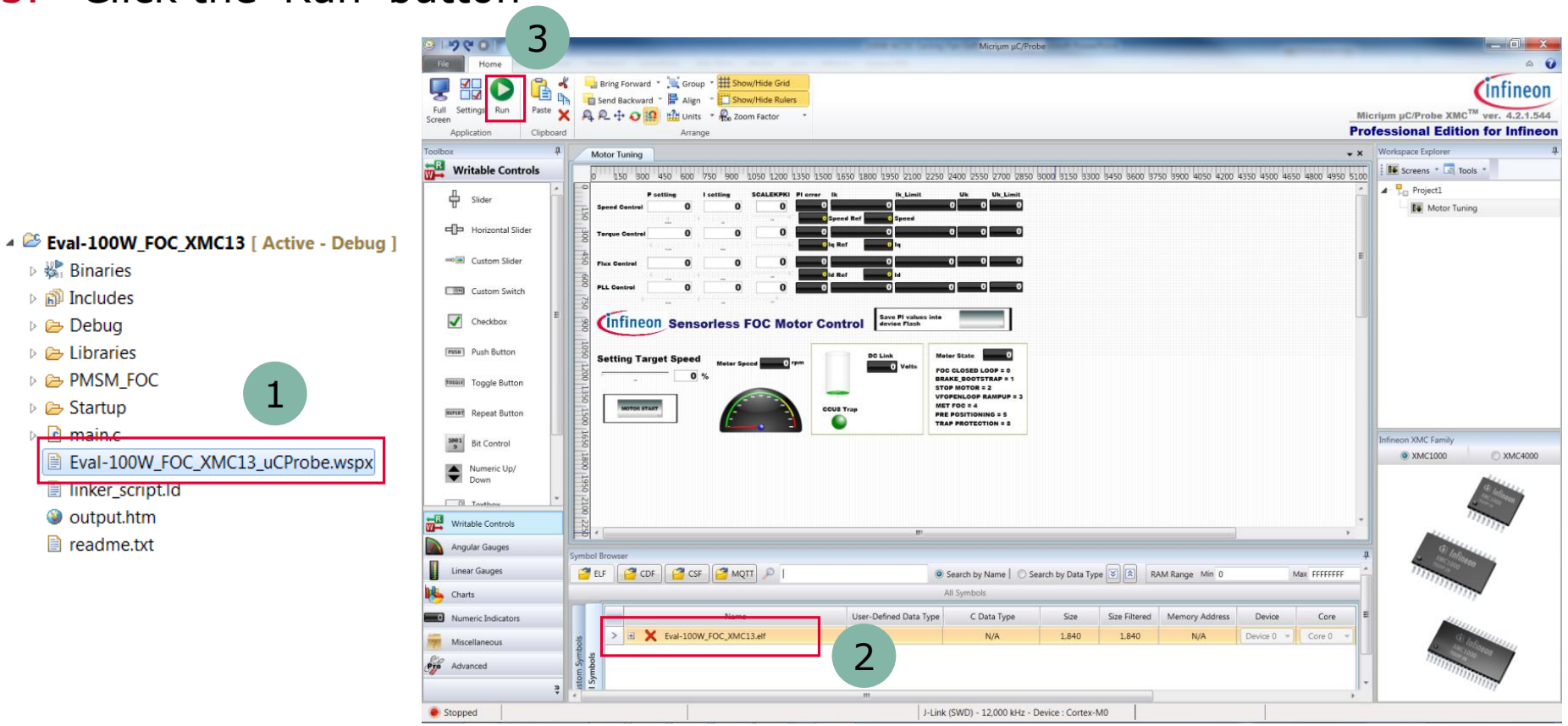
100 W motor drive evaluation board Using µC/Probe™ GUI(1/6)

1. Open *.wspx µC/Probe™ project by double click on *.wspx file
2. Check the *.elf file is attached to µC/Probe™ project
3. Click the 'Run' button



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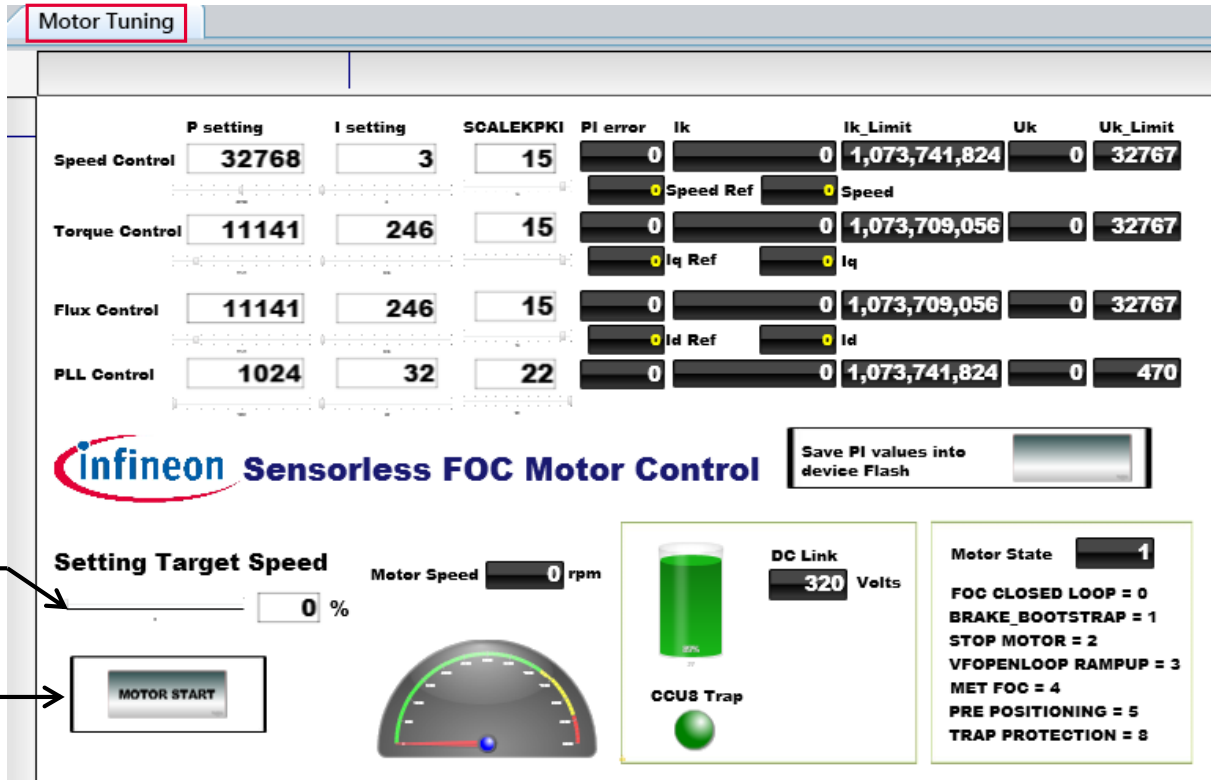
100 W motor drive evaluation board Using µC/Probe™ GUI(2/6)

4. The default KP, KI values from the pmsm_foc_motor_parameters.h file are automatically display in the Motor Tuning page

5. First, click **MOTOR START** button, then use the Target Speed slider or key in directly to set the percentage of Max. speed desired. => Motor starts to spin



2 Move the slider to 20% speed Then Increase to 50%, leave motor Run for 5 min

1 First, click 'MOTOR START' button

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