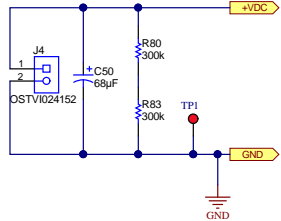
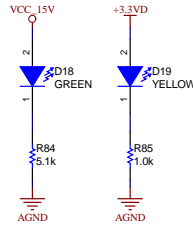


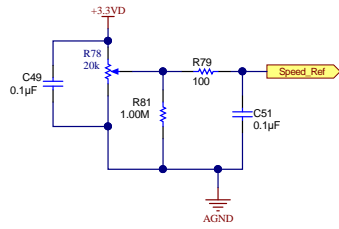
DC Voltage Input



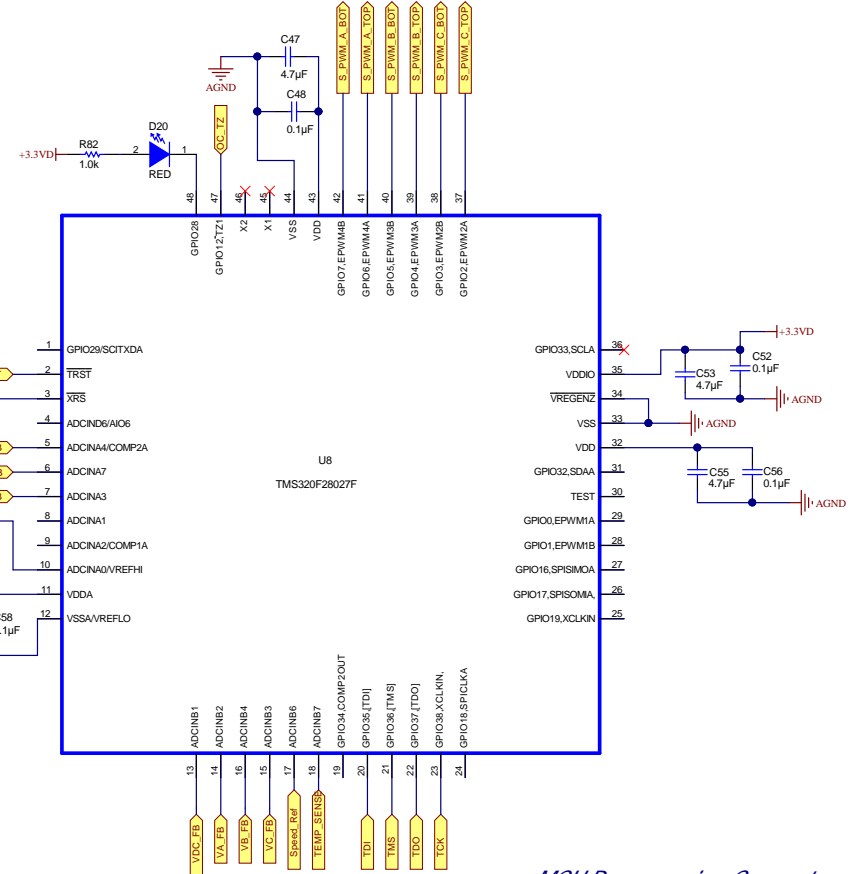
LED Indications



Speed Reference POT

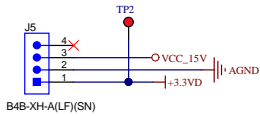


MCU schematic and peripheral connections

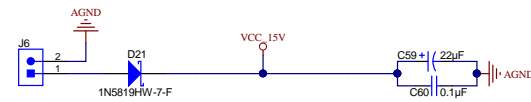


External Bias power supply connection and TIDA-00947

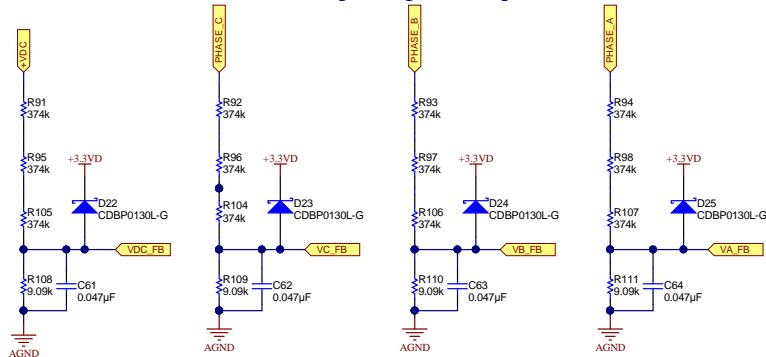
3.3V DC/DC (TIDA-00947)



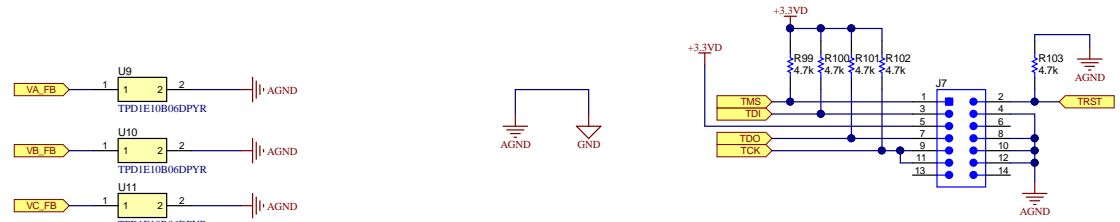
Bias Power Supply Input



DC bus and winding voltage sensing

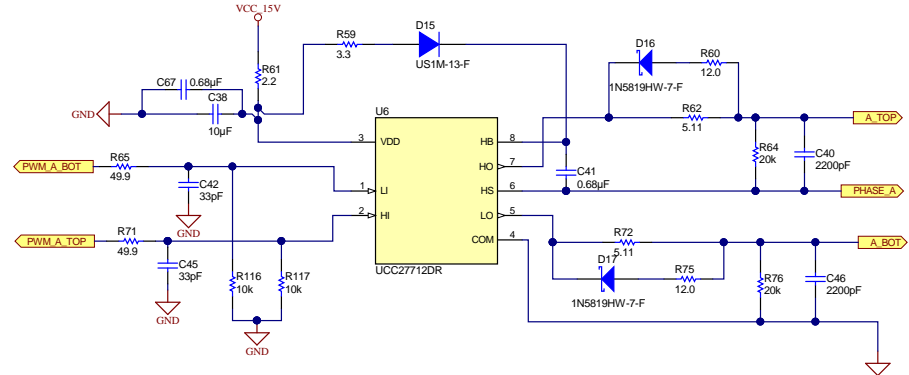
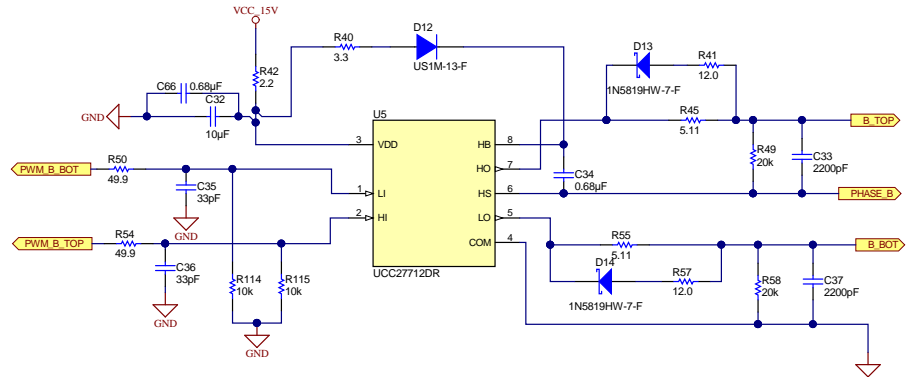
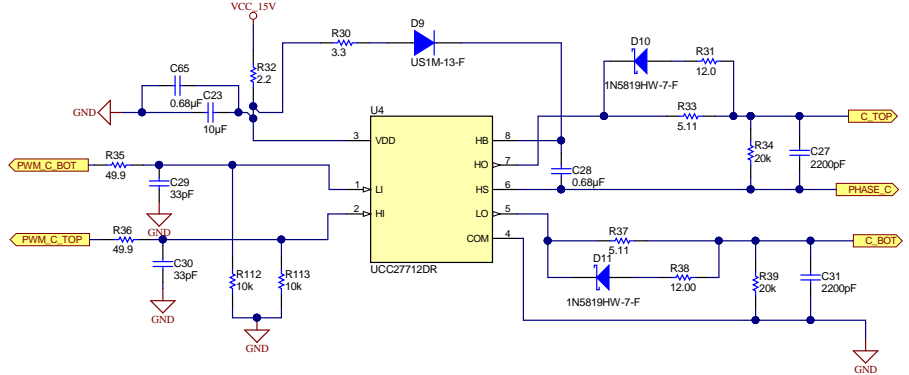


MCU Programming Connector



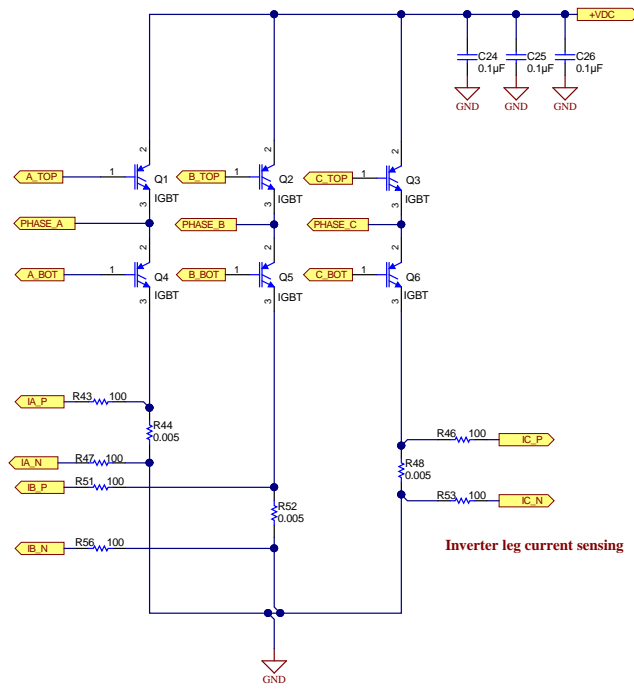
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SVN Rev: Version control disabled	Assembly Variant: [No Variations]	Sheet: 2 of 3
Drawn By:	File: TIDA-010023_MCU_SchDoc	Size: B
Engineer: Enter name of project lead	Contact: http://www.ti.com/support	

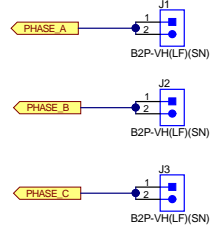


Gate Driver

Three Phase Inverter Bridge

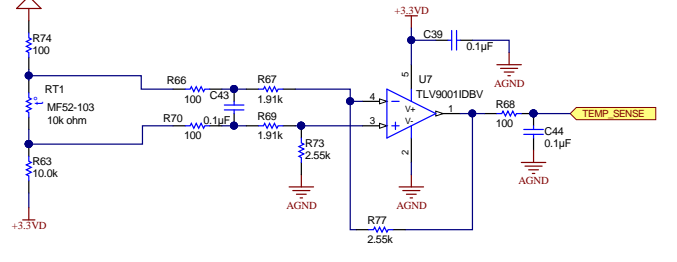


Motor Winding Connector



Inverter leg current sensing

IGBT Temperature Sensing Signal Conditioning



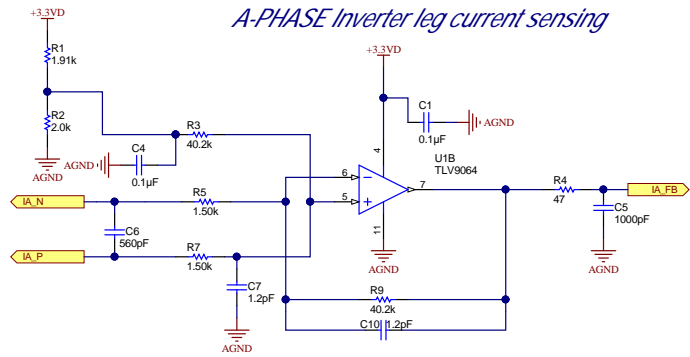
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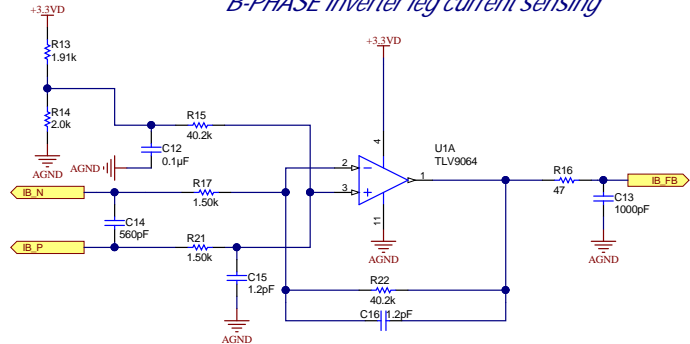


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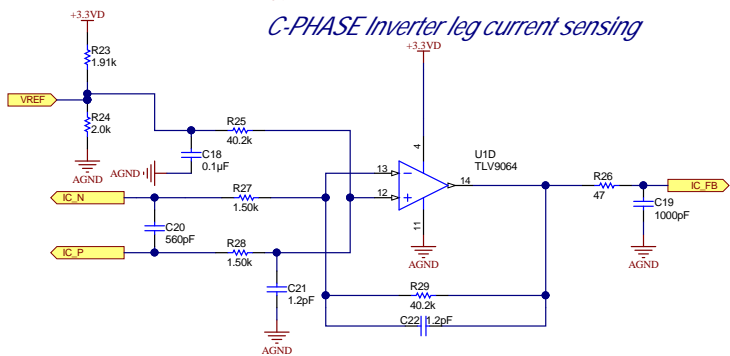
Current Sensing for 2-shunt or 3-Shunt FOC



A-PHASE Inverter leg current sensing



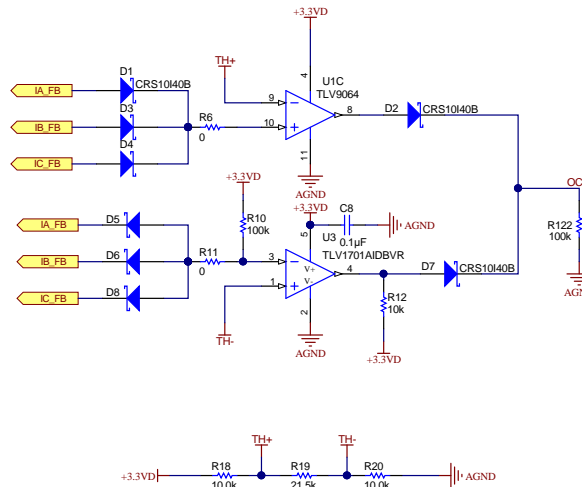
B-PHASE Inverter leg current sensing



C-PHASE Inverter leg current sensing

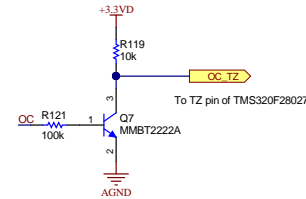
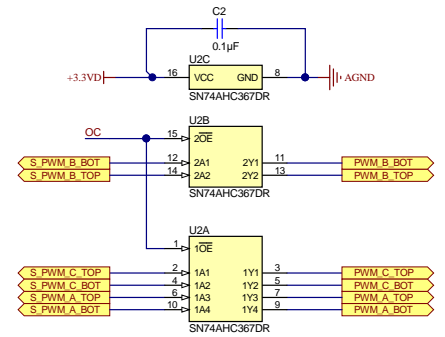
Over Current Protection Circuit

Window Comparator OCP Circuit



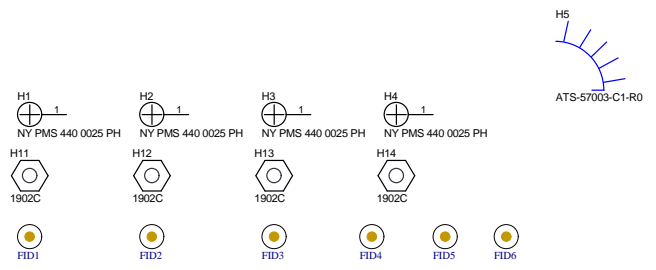
Hardware Over Current Protection Circuit

Hardware OCP Circuit



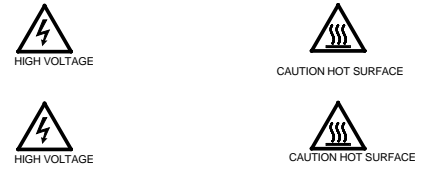
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Drawn By:	File: TIDA-010023 Current Sensing SchDoc	Size: B
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PCB Number: XX####
 PCB Rev: E2

PCB LOGO
 Pb-Free Symbol
 PCB LOGO
 Pb_Free
 PCB LOGO
 Caution
 PCB LOGO
 Logo_TI



ZZ1
Label Assembly Note
 This Assembly Note is for PCB labels only

ZZ2
Assembly Note
 These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3
Assembly Note
 These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4
Assembly Note
 These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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