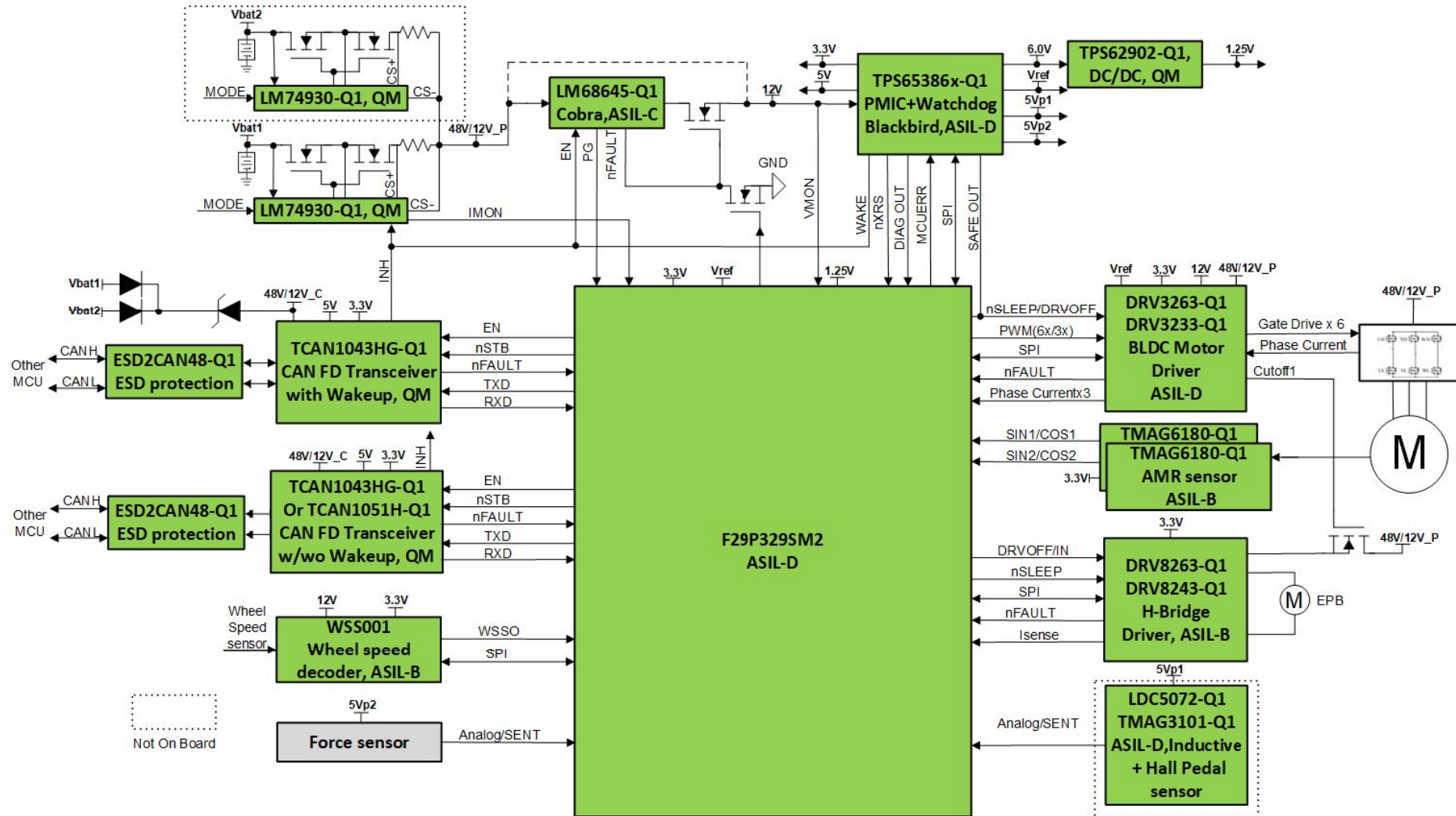


TIDA-020106

Electromechanical braking (EMB, 48V/12V, VerA)

Revision History

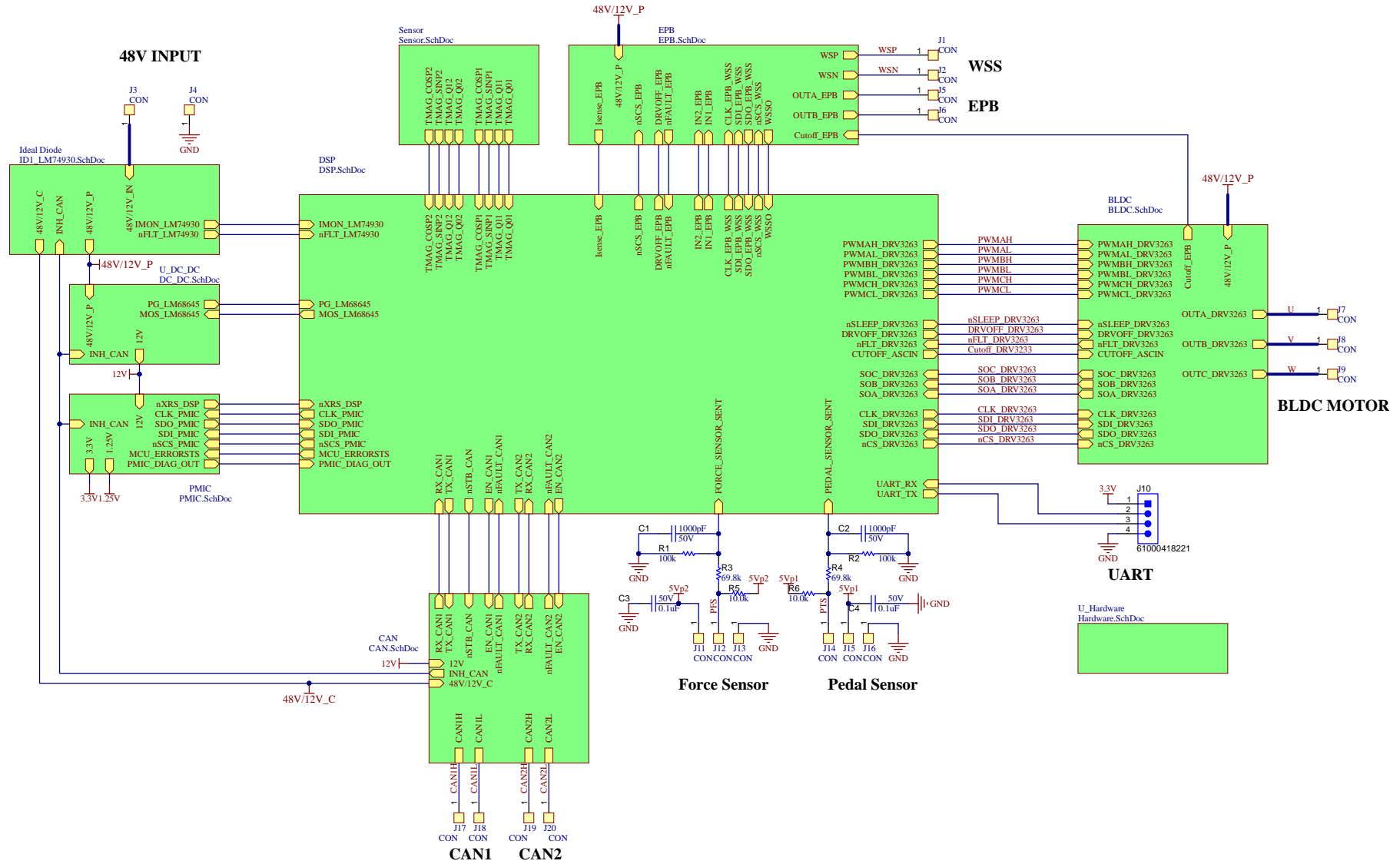
Rev	ECN#	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A



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Orderable: No	Designed for: Public Release	Mod. Date: 4/15/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106 Rev: VerA	Sheet Title: Cover	
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 1 of 15
Drawn By:	File: Cover - VerA.SchDoc	Size: B
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

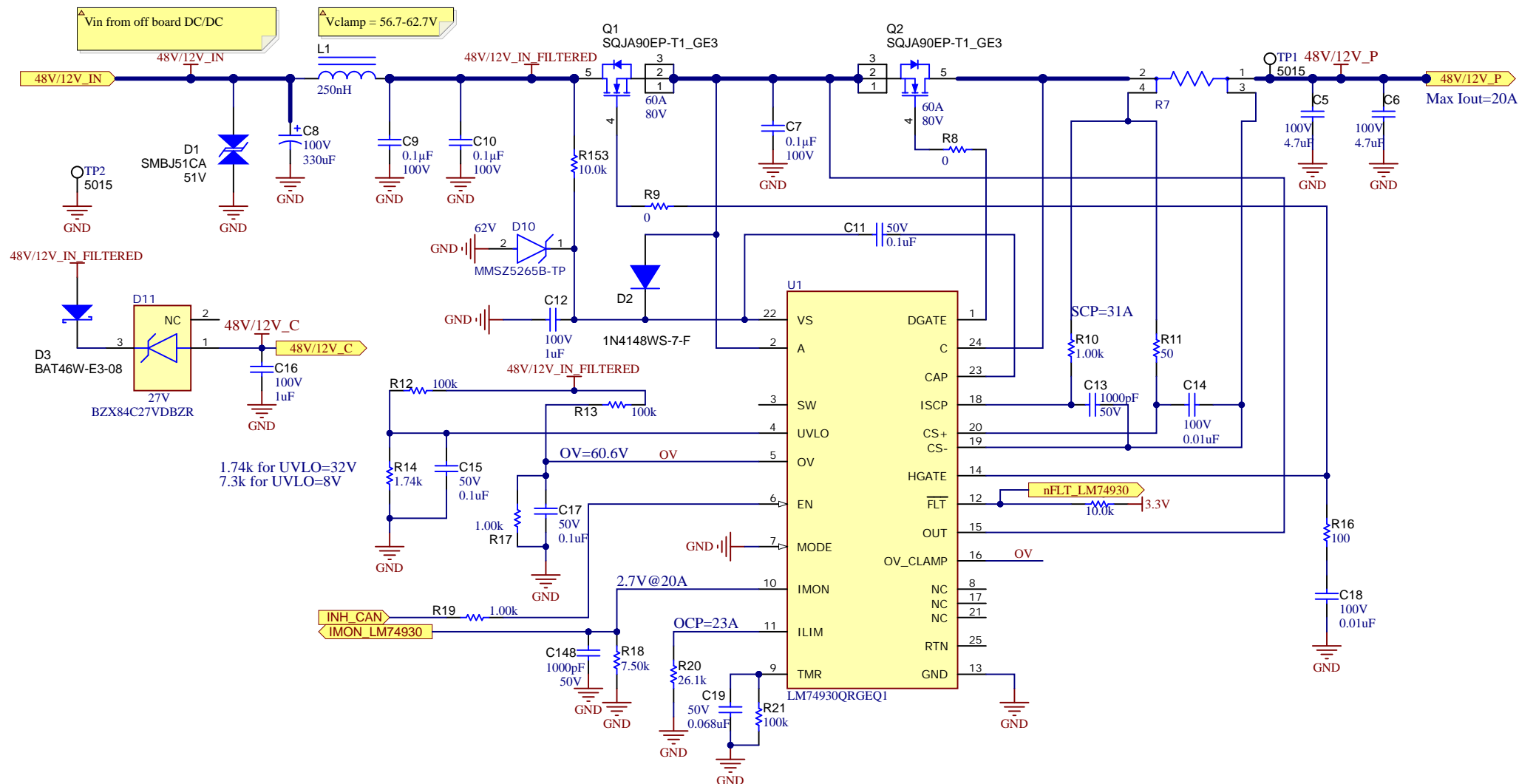
MAIN




Orderable: No	Designed for: Public Release	Mod. Date: 5/17/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerB	Sheet Title: Main
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 2 of 15
Drawn By: Hely Zhang	File: Main.SchDoc	Size: B
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

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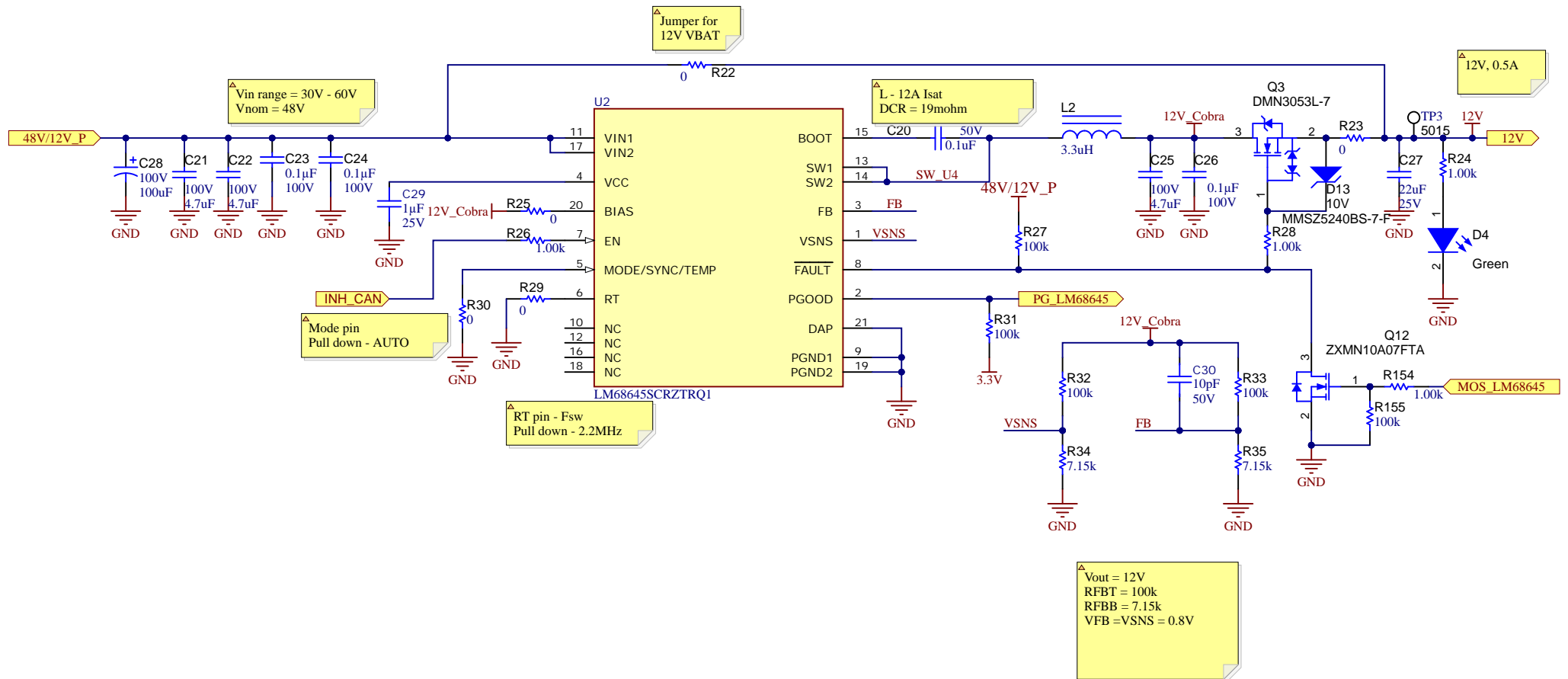
Ideal Diode



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TID #: TIDA-020106	Project Title: TIDA-020106		
Number: TIDA-020106 Rev: VerB	Sheet Title: LM25143-Q1 Two Phases		
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 3 of 15	
Drawn By: Hely Zhang	File: ID1_LM74930_SchDoc	Size: A4	
Engineer: Hely Zhang	Contact: http://www.ti.com/support		

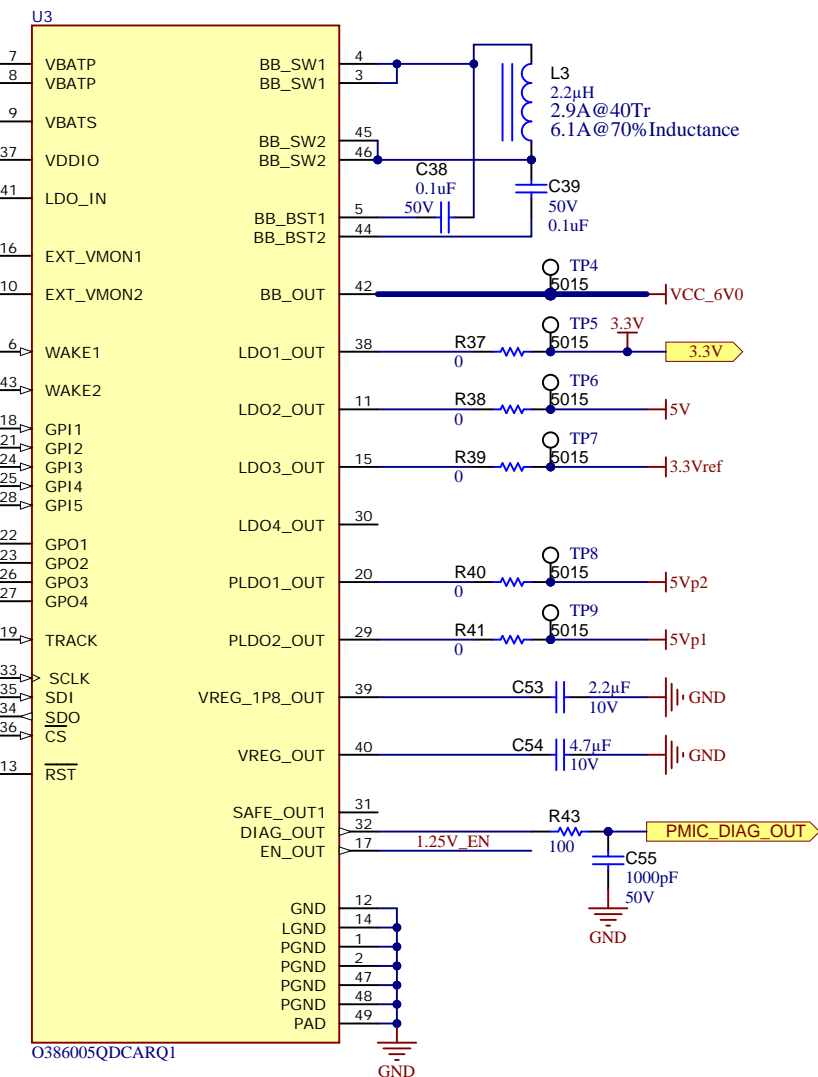
DC/DC



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Orderable: No	Designed for: Public Release	Mod. Date: 4/3/2026
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Number: TIDA-020106	Rev: VerB	Sheet Title: DC/DC
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 4 of 15
Drawn By: Hely Zhang	File: DC_DC.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

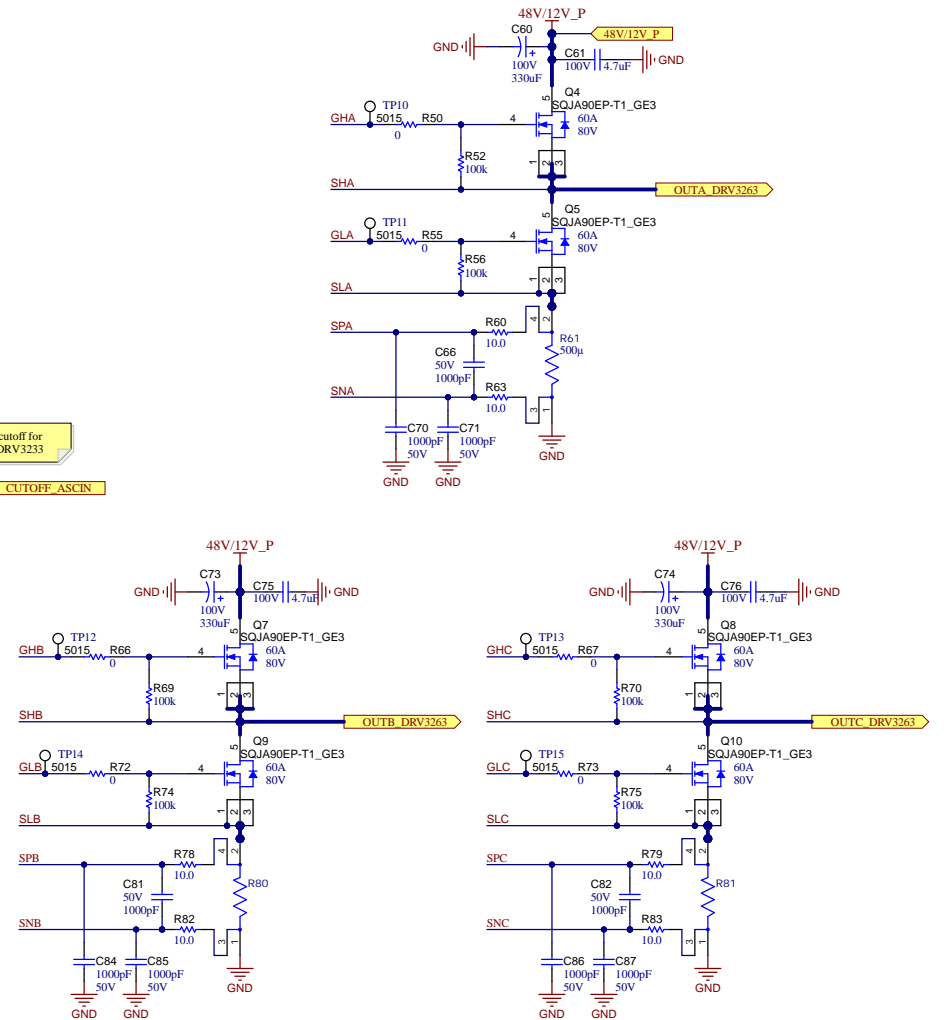
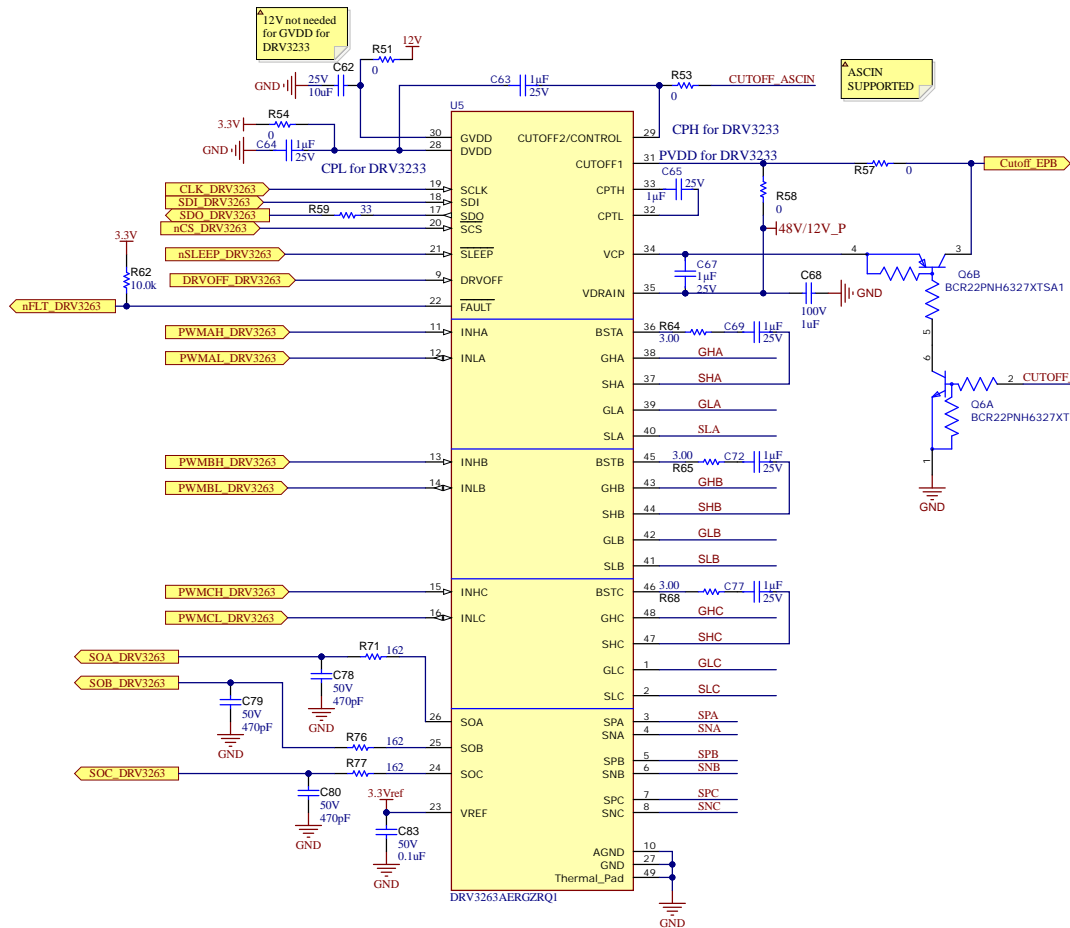
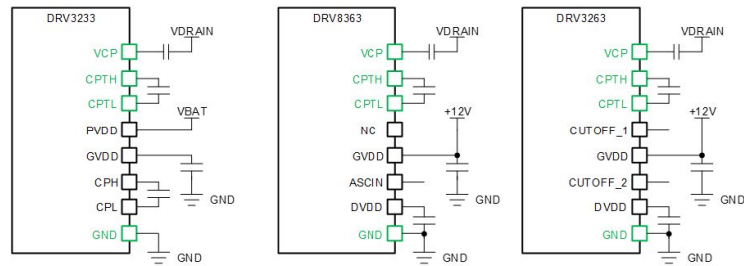
PLACE 0.1uF CAPS CLOSER TO VBAT PINS 7,8 & 9 AS MUCH AS POSSIBLE



TPS653860 PMIC

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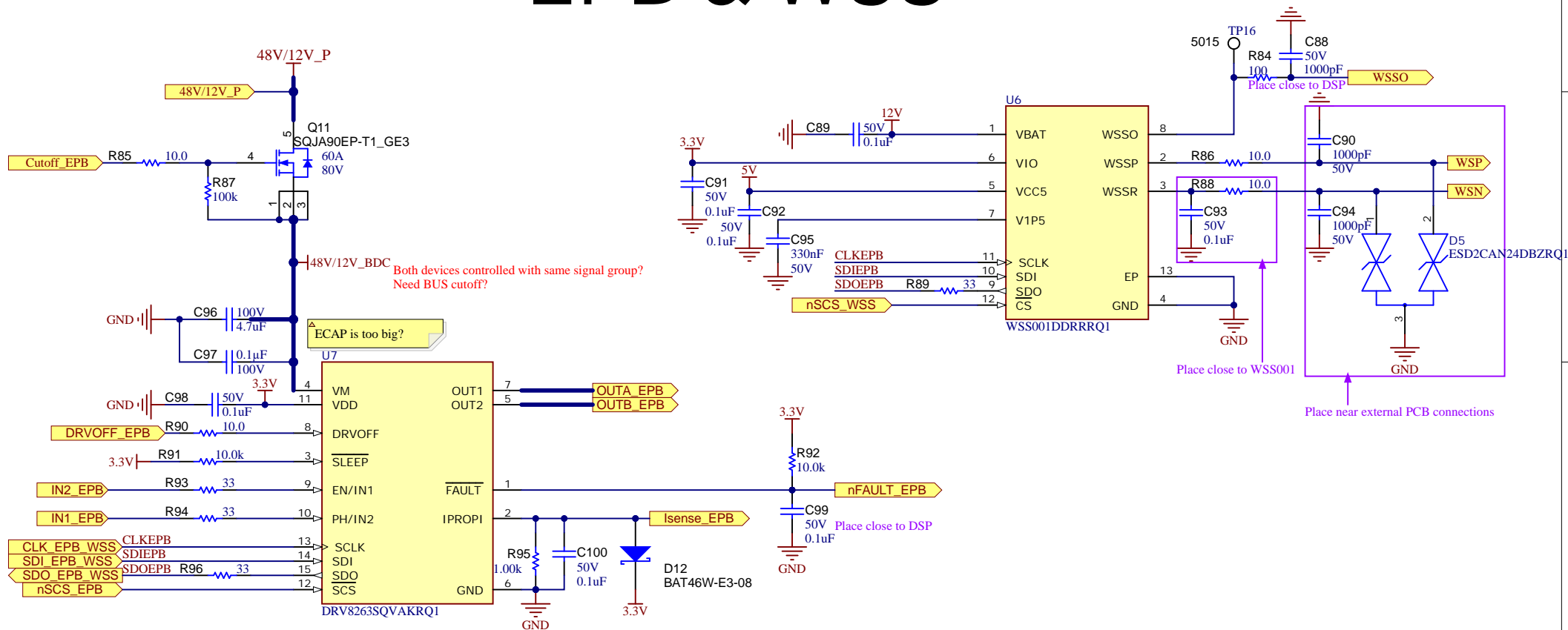
BLDC Motor Drive



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Orderable: No	Designed for: Public Release	Mod. Date: 4/15/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106 Rev: VerB	Sheet Title: BLDC	
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet 6 of 15
Drawn By: Hely Zhang	File: BLDC_SchDoc	Size: B
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

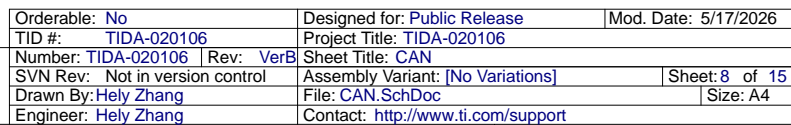
EPB & WSS



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Orderable: No	Designed for: Public Release	Mod. Date: 4/1/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerB	Sheet Title: EPB & WSS
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 7 of 15
Drawn By: Hely Zhang	File: EPB.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

CAN1 with wakeup

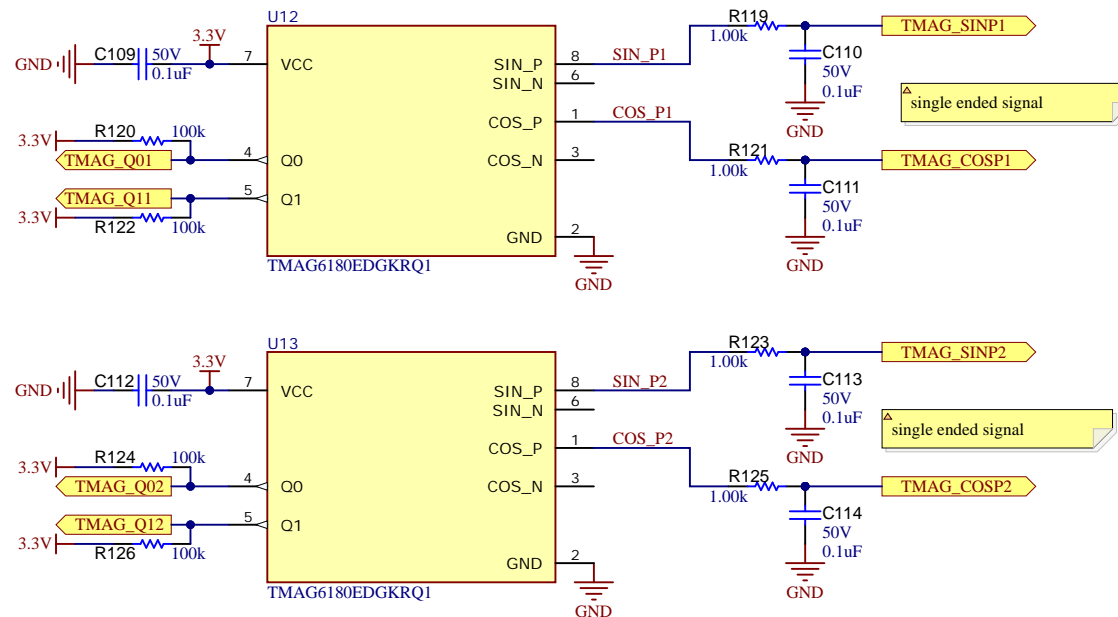


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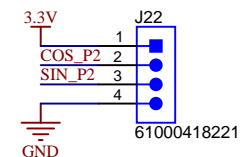
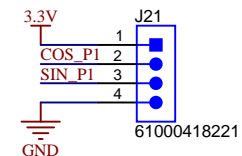


Rotor Position Sensor

Onboard AMR sensor




Offboard Inductive Sensor

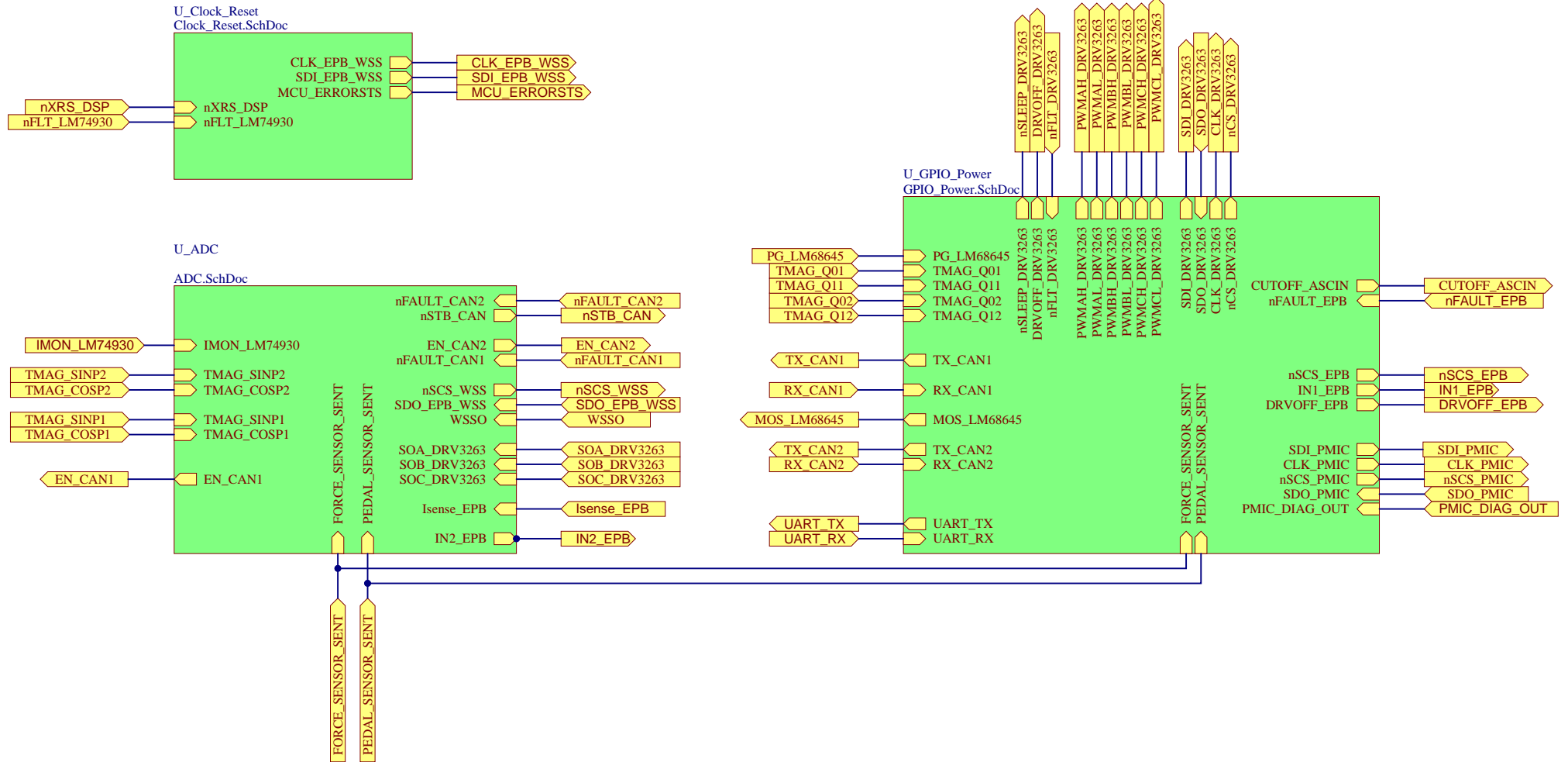


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Orderable: No	Designed for: Public Release	Mod. Date: 3/27/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerB	Sheet Title: Sensor
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 9 of 15
Drawn By: Hely Zhang	File: Sensor.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

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DSP



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Orderable: No	Designed for: Public Release	Mod. Date: 5/17/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerB	Sheet Title: DSP
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 10 of 15
Drawn By: Hely Zhang	File: DSP.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

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A



C

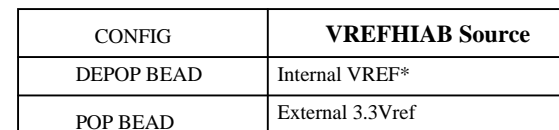


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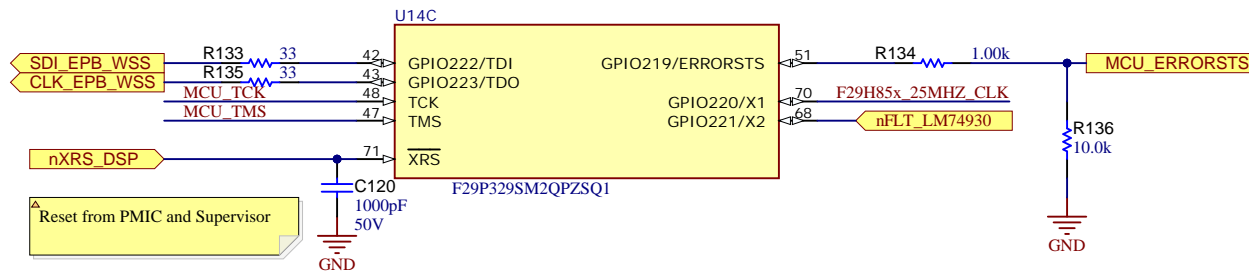


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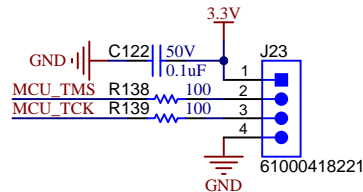
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CLOCK AND RESET

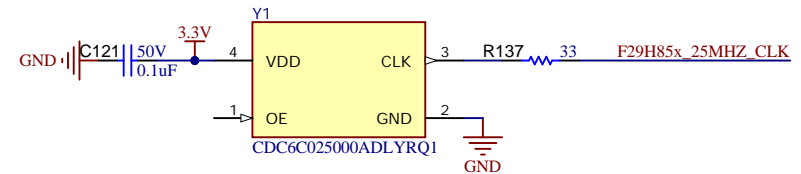
Reset and JTAG



Emulator Connector

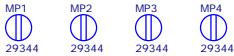


Clock



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Orderable: No	Designed for: Public Release	Mod. Date: 3/26/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerB	Sheet Title: Clock&Reset
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 13 of 15
Drawn By: Hely Zhang	File: Clock_Reset.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	



PCB Number: TIDA-020106
PCB Rev: VerA

PCB
LOGO
Texas Instruments



PCB
LOGO
FCC disclaimer

PCB
LOGO
WEEE logo



CAUTION HOT SURFACE



DANGER HIGH VOLTAGE

LBL1

PCB Label

TH1-14-423-10
Size: 0.65" x 0.20"

Variant/Label Table	
Variant	Label Text
001	ChangeMe!
002	ChangeMe!

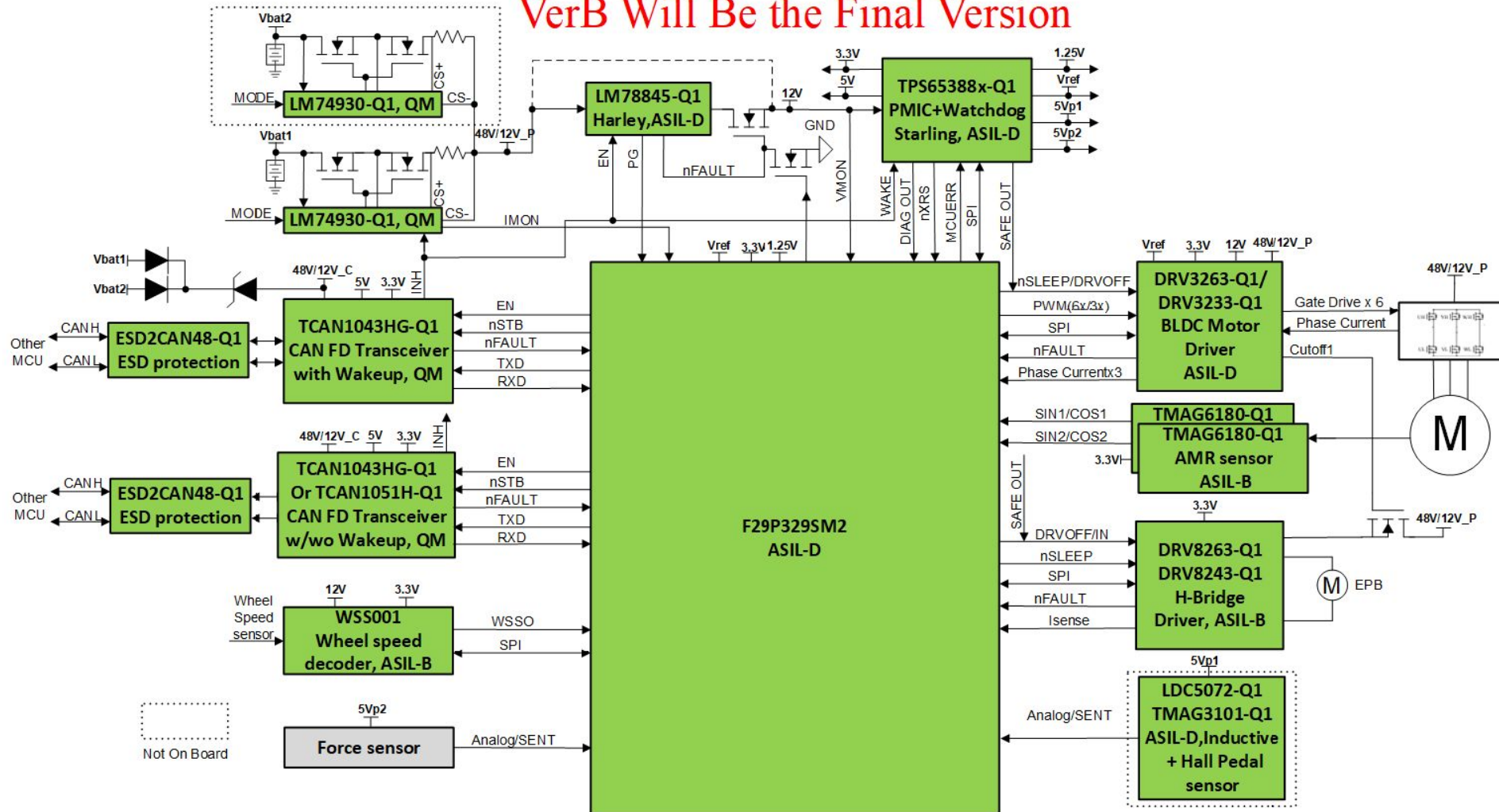
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Orderable: No	Designed for: Public Release	Mod. Date: 4/3/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106 Rev: VerB	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 14 of 15
Drawn By:	File: Hardware_SchDoc	Size: B
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

TIDA-020106

Electromechanical braking (EMB, 48V/12V, VerB)

VerB Will Be the Final Version



Revision History				
Rev	ECN#	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A

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Orderable: No	Designed for: Public Release	Mod. Date: 4/15/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106 Rev: VerB	Sheet Title: Cover	
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 15 of 15
Drawn By:	File: Cover - VerB.SchDoc	Size: B
Engineer: Hely Zhang	Contact: http://www.ti.com/support	