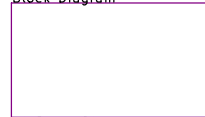


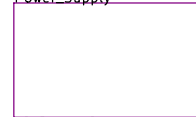
# BLDC Driver

Block Diagram



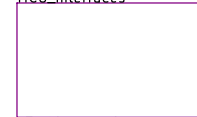
s1\_Block\_Diagram.sch

Power Supply



s2\_Power\_Supply.sch

MCU Interfaces



s3\_MCU\_Interfaces.sch

Main



s4\_Main.sch

Hall Sensor inf



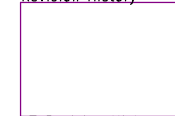
s5\_Hall\_Sensor\_inf.sch

Manufacturing



s6\_Manufacturing.sch

Revision History



s7\_Revision\_History.sch

Release Date: 11th Feb,2019	
Designed By: APC,Ishan	Date: 5th Feb,2019
Drawn By: APC,Ishan	Date: 5th Feb,2019
Verified By: CAP,Ishan	Date: 11th Feb,2019
Customer:	

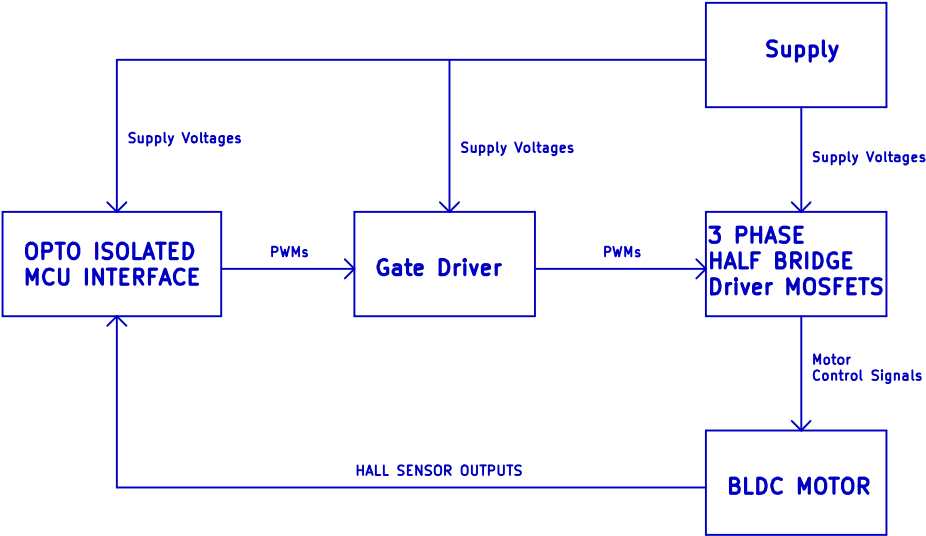


System Level Solutions Inc.  
Plot#32, Phase 1, Zone D/4,  
G.I.D.C. Estate,  
V.U.Nagar - 388121,  
Gujarat, INDIA

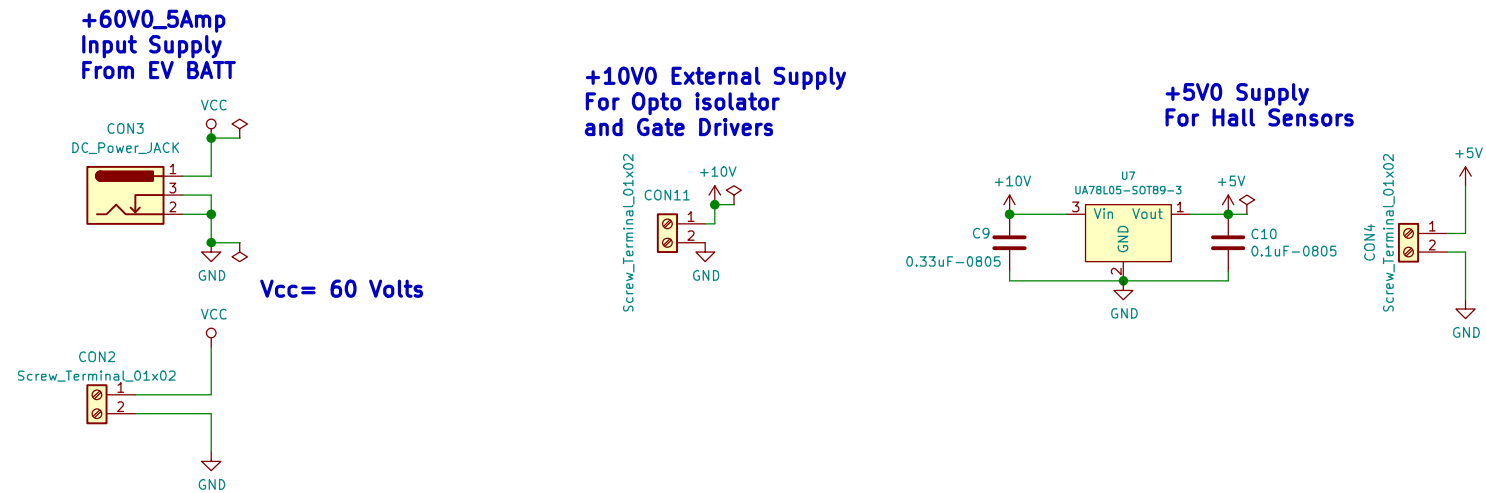
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Sheet Name: /		
Title: BLDC Driver		
Size: A4	Document Number: PCB-BLDCDRVR-1903-1A-01	Rev: 1A
Date: 2019-01-18		Sheet: 1/8

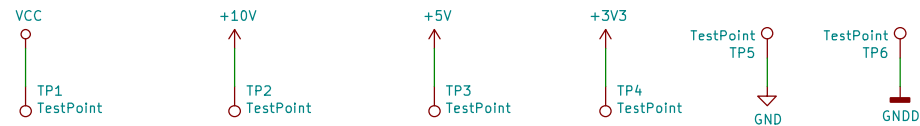
# Block Diagram



# Supply Section



## Test Points



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Sheet Name: /Power_Supply/		
Title: BLDC Driver		
Size: A4	Document Number: PCB-BLDCDRVR-1903-1A-01	Rev: 1A
Date: 2019-01-30		Sheet: 3/8

# MCU Interfaces

## PWM Interfaces From MCU

Screw\_Terminal\_01x02

CON6 ① 1 MCU\_A1  
② 2 MCU\_A2

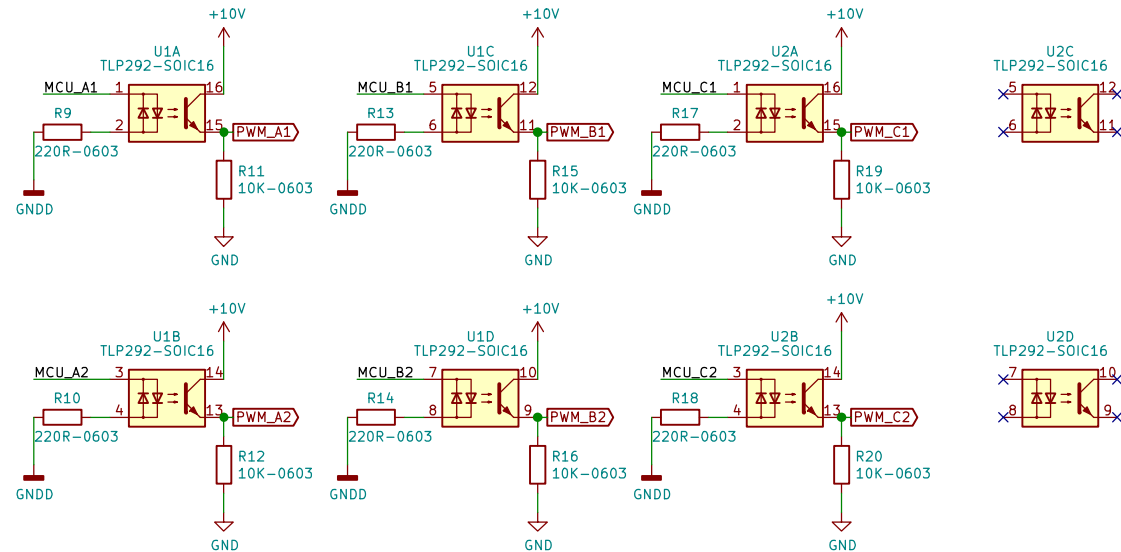
Screw\_Terminal\_01x02

CON7 ① 1 MCU\_B1  
② 2 MCU\_B2

Screw\_Terminal\_01x02

CON8 ① 1 MCU\_C1  
② 2 MCU\_C2

## Opto Isolators



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Sheet Name: /MCU\_interfaces/

Title: BLDC Driver

Size: A4 Document Number: PCB-BLDCDRVR-1903-1A-01

Rev: 1A

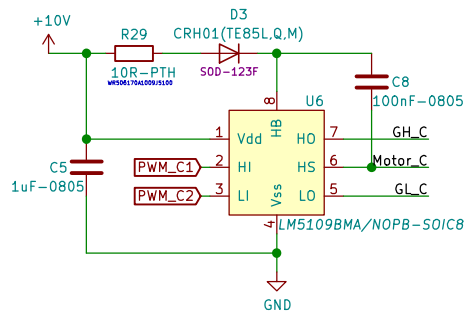
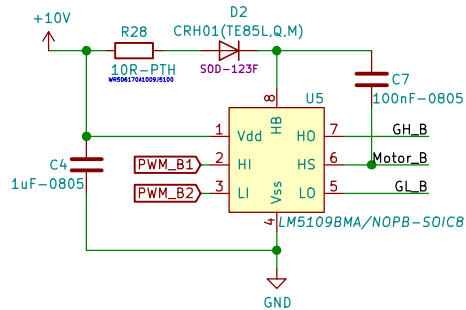
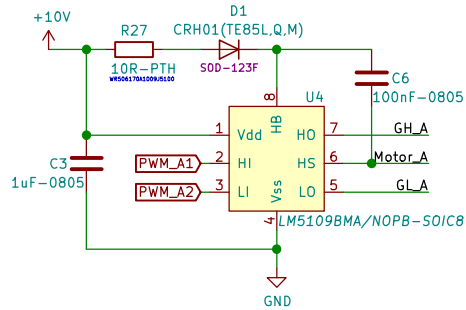
Date:

Sheet: 4/8

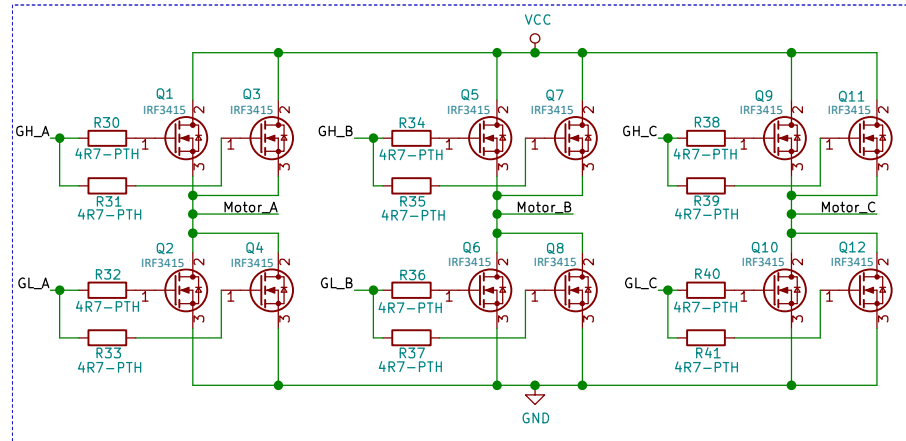
# Gate Drivers and Half Bridges

Note :Pulse Withstanding Resistor Is used for below R27,R28,R29  
Man Part No: WR506170A1009J5100

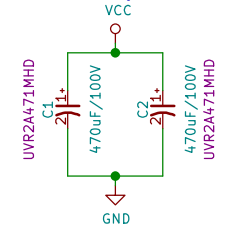
## GATE Drivers



## Half Bridges



## Filter Capacitors



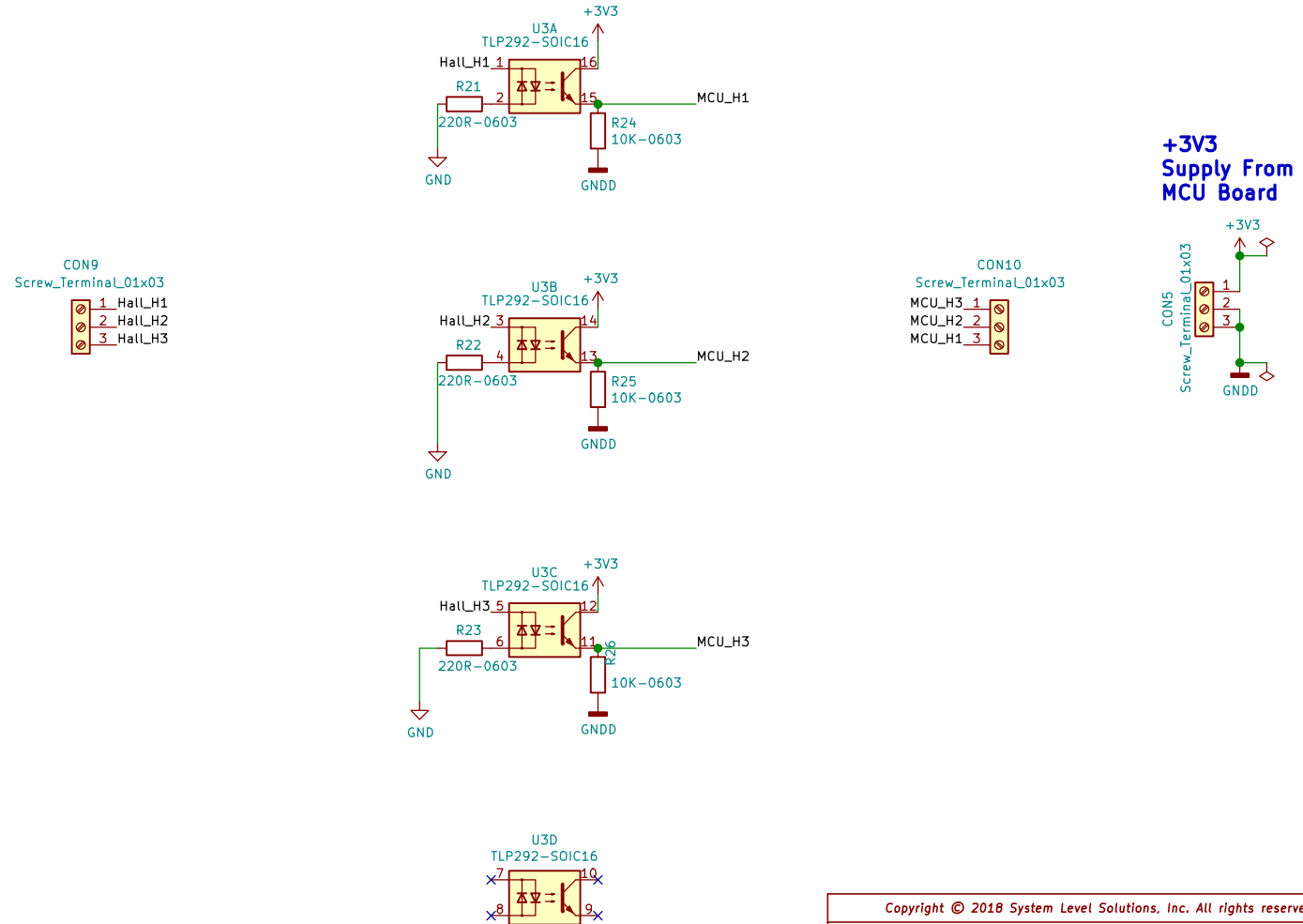
Note: All the Gate Resistors used in Half Bridge is Special resistors which have capability to withstand Pulsed Currents of 0.5Amps  
Manufacturer Part No : PR02000204708JA100

## Motor Connector



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Sheet Name: /Main/			
Title: BLDC Driver			
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# Hall Sensor Interfaces



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Date:	Sheet: 6/8	

# Mechanicals

## Fiducials



## Mounting Holes



## SLS LOGO



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Title: BLDC Driver			
Size: A4	Document Number: PCB-BLDCDRVR-1903-1A-01		Rev: 1A
Date: 2019-01-18			Sheet: 7/8

Revision History			
Sr. No.	Revision	Date	Description
1	REV1A	11th Feb,2019	Released Initial Version of Board for testing purpose.
<div> <div>Copyright © 2018 System Level Solutions, Inc. All rights reserved.</div> <div>Sheet Name: /Revision History/</div> <div>Title: BLDC Driver</div> <div> <div>Size: A4</div> <div>Document Number: PCB-BLDCDRVR-1903-1A-01</div> <div>Rev: 1A</div> </div> <div> <div>Date: 2019-01-18</div> <div>Sheet: 8/8</div> </div> </div>			

Sheet Name: /Revision History/

Size: A4 Document Number: PCB-BLDCDRV-1903-1A-01 Rev: 1A

Rev: 1A

Sheet: 8/8