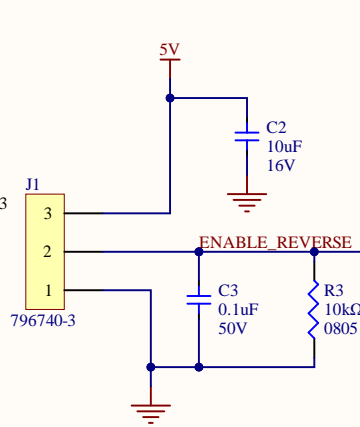


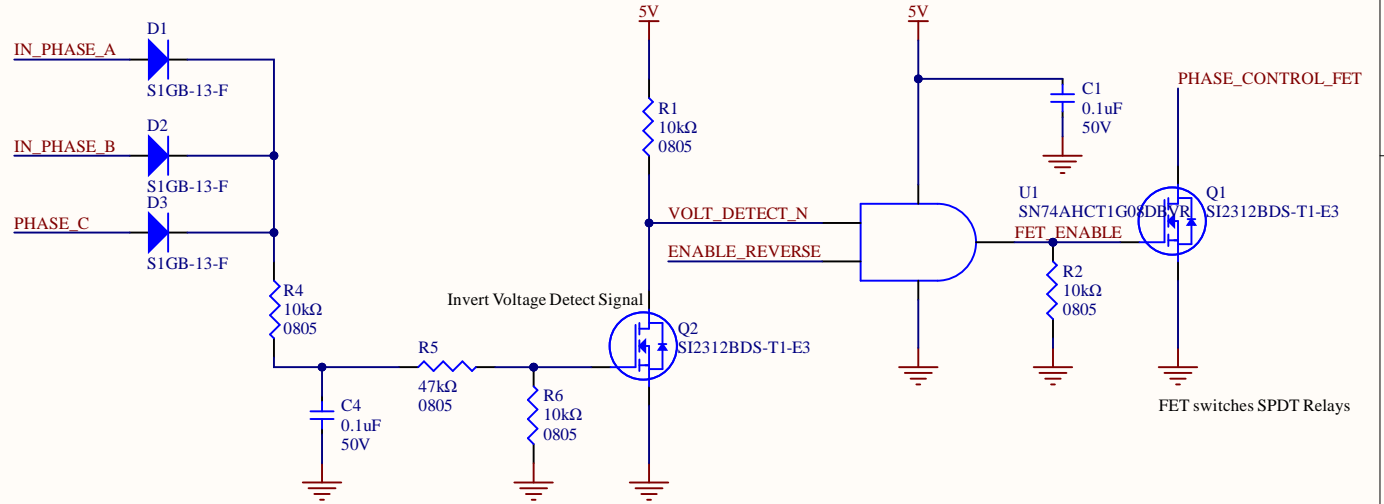
5V Power Input and MCU Signal Input

Place 0.1 μ F 0805 capacitor as close as possible to connector for proper ESD

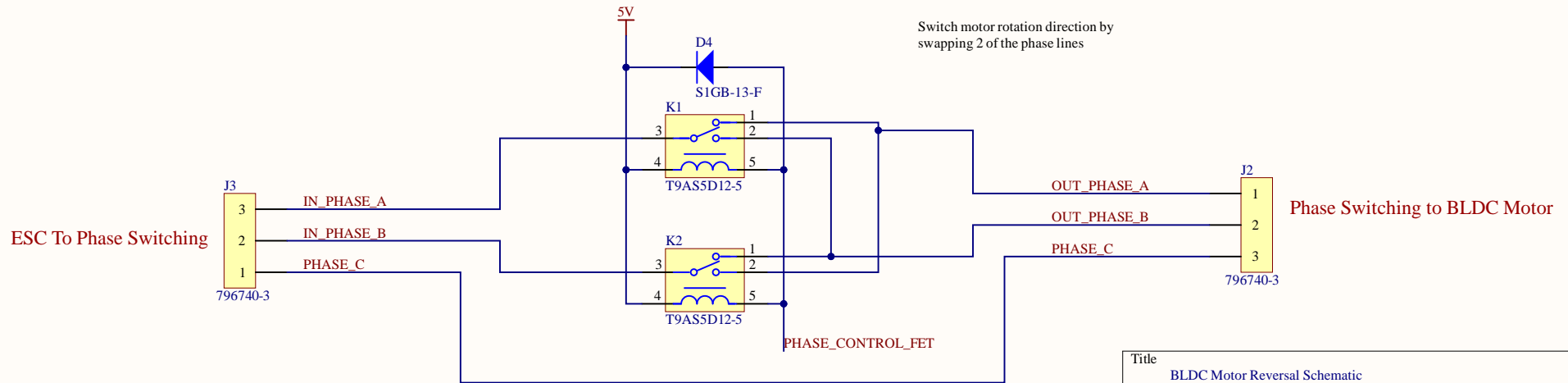
MCU Signal Logic HIGH (Phase REVERSAL) = 3V3
MCU Signal Logic LOW (Phase NORMAL) = 0V



Voltage Detection



Phase Switching Relays



Phase Switching to BLDC Motor

Title BLDC Motor Reversal Schematic		
Size A4	Number	Revision Rev 2
Date: 5-31-2021	Sheet of 1 of 1	
File: C:\Users\BLDC_Motor_Reversal_Rev2_SchDoc	By: Kiran Surendran	

Comment	Description	Designator	Footprint	LibRef	Quantity
C0805C104K5RACTU	Cap Ceramic 0.1uF 50V X7R 10% SMD 2.0 x 1.2 mm 125 C Paper T/R	C1, C3, C4	C0805C104K5RACTU	C0805C104K5RACTU	3
C0805C106K4PACTU	CERAMIC CAPACITOR, 10UF, 16V, X5R, 10%, 0805	C2	C0805C106K4PACTU	C0805C106K4PACTU	1
S1GB-13-F	Flyback Diode for SPDT	D1, D2, D3, D4	S1GB-13-F	S1GB-13-F	4
796740-3	TERM BLK 3P SIDE ENT 6.35MM PCB	J1, J2, J3	796740-3	796740-3	3
T9AS5D12-5	RELAY GEN PURPOSE SPDT 20A 5V	K1, K2	T9AS5D12-5	T9AS5D12-5	2
SI2312BDS-T1-E3	MOSFET	Q1, Q2	SI2312BDS-T1-E3	SI2312BDS-T1-E3	2
RC0805JR-0710KL	Res Thick Film 0805 10K Ohm 5% 1/8W ±100ppm/°C Molded SMD Paper T/R	R1, R2, R3, R4, R6	RC0805JR-0710KL	RC0805JR-0710KL	5
RC0805JR-0747KL	47 kOhms ±5% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R5	RC0805JR-0747KL	RC0805JR-0747KL	1
AND Gate	AND Gate IC 1 Channel - SOT-23-5	U1	SN74AHCT1G08DBVR	SN74AHCT1G08DBVR	1