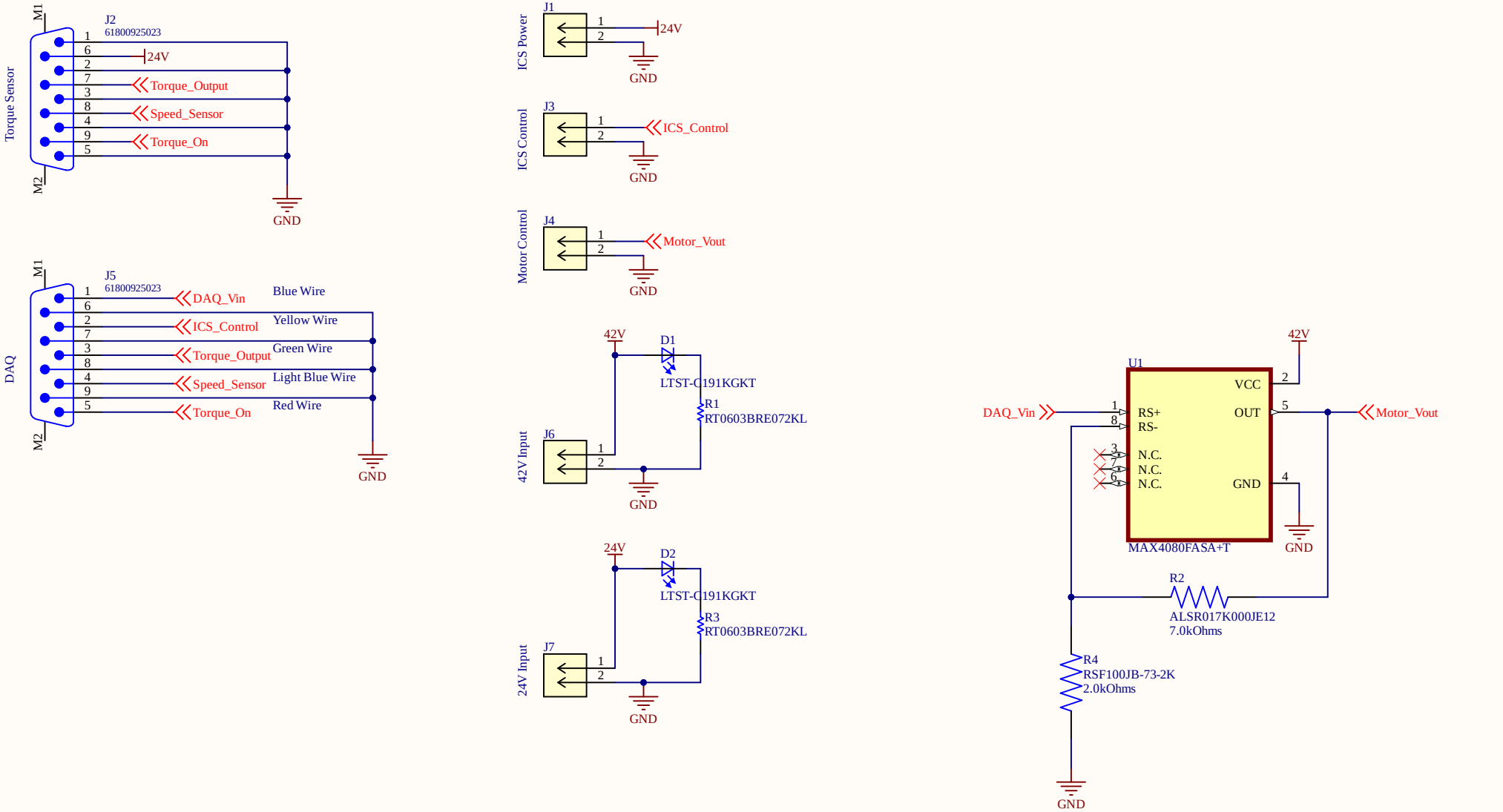
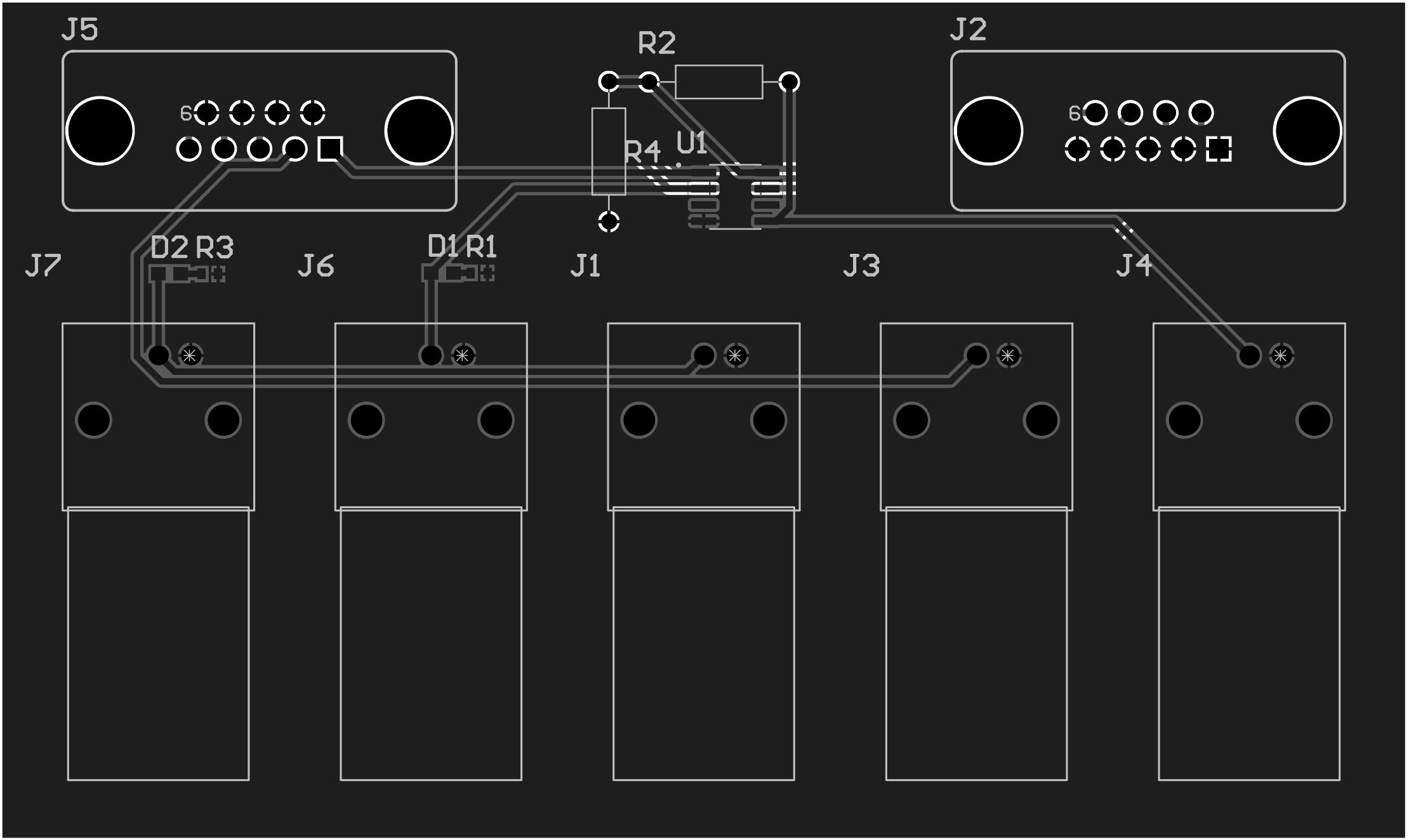

Torque Sensor
M1
M2
J2
61800925023
1
6
2
7
3
8
4
9
5
24V
Torque_Output
Speed_Sensor
Torque_On
GND
DAQ
J5
61800925023
DAQ_Vin
ICS_Control
Torque_Output
Speed_Sensor
Torque_On
Blue Wire
Yellow Wire
Green Wire
Light Blue Wire
Red Wire
GND
ICS Power
J1
24V
GND
ICS Control
J3
ICS_Control
GND
Motor Control
J4
Motor_Vout
GND
42V Input
J6
42V
D1
LTST-C191KGKT
R1
RT0603BRE072KL
GND
24V Input
J7
24V
D2
LTST-C191KGKT
R3
RT0603BRE072KL
GND
U1
VCC
RS+
RS-
N.C.
N.C.
N.C.
OUT
GND
MAX4080FASA+T
R2
ALSR017K000JE12
7.0kOhms
R4
RSF100JB-73-2K
2.0kOhms
Motor_Vout
Title
Size
A4
Number
Revision
Date:
12-16-2022
Sheet of
File:
C:\Users\..\main.SchDoc
Drawn By:


J5
R2
J2
6
6
R4
U1
D2
R3
D1
R1
J7
J6
J1
J3
J4

Comment	Description	Designator	Footprint	LibRef	Quantity	Manufacturer	Manufacturer Product Number
LTST-C191KGKT	Green 571nm LED Indication - Discrete 2V 0603 _1608 Metric_	D1, D2	0603	LTST-C191KGKT	2		
https://www.digikey.ca/en/products/detail/molex/0731375003/1465136	https://www.digikey.ca/en/products/detail/molex/0731375003/1465136	J1, J3, J4, J6, J7	CONN_73137-5003_MOL	731375003	5		
61800925023	Male PCB Connector WR-DSUB, Vertical, 9 pins	J2, J5	61800925023	CMP-1502-00276-1	2	Wurth Elektronik	
RT0603BRE072KL		R1, R3	RESC1608X55X25LL10T15	CMP-2000-04536-1	2	Yageo	
ALSR017K000JE12	7 kOhms ±5% 1W Through Hole Resistor Axial Moisture Resistant Wirewound	R2	Thru Hole Resistor	ALSR017K000JE12	1	Vishay Dale	ALSR017K000JE12
RSF100JB-73-2K	2 kOhms ±5% 1W Through Hole Resistor Axial Flame Proof, Safety Metal Oxide Film	R4	Thru Hole Resistor	RSF100JB-73-2K	1	YAGEO	RSF100JB-73-2K
MAX4080FASA+T	Current Sense Amplifier 1 Circuit - 8-SOIC	U1	8-SOIC (0.154", 3.90mm Width)	MAX4080FASA+T	1		