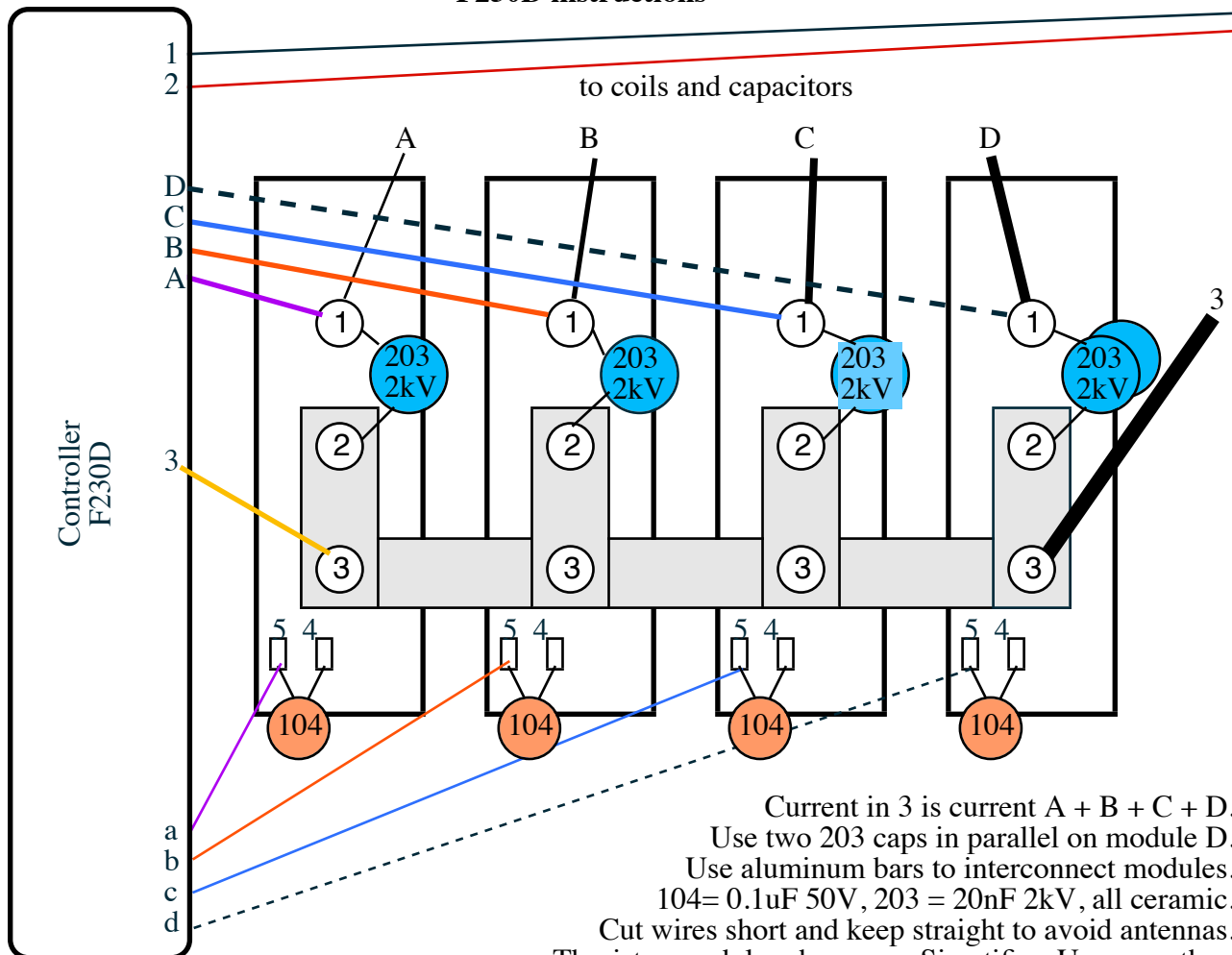




F230D instructions

10/09/2018



Current in 3 is current A + B + C + D.
Use two 203 caps in parallel on module D.
Use aluminum bars to interconnect modules.
104= 0.1uF 50V, 203 = 20nF 2kV, all ceramic.
Cut wires short and keep straight to avoid antennas.
Thyristor modules shown are Sirectifier. Use any other.
Keep wires between controller and SCRs as short as possible.
Use small amount of heat sink compound on SCR modules, spread evenly.
Heat sinks: Heat per module in watts is equivalent to the current flowing in amps.
Currents in A B C are continuous, current in D when motors accelerate, momentary only.

hp	A	B	C	D
20	70 8A	70 16A	70 32A	116 210A
30	70 12A	70 23A	70 47A	165 313A
60	70 24A	70 46A	116 95A	165 313A 2x 30hp sequential start
90	70 36A	116 72A	116 140A	165 313A 3x 30hp sequential start
120	70 48A	116 96A	165 180A	320 470A 2x 50hp sequential start
Example	70:	116:	165:	320:
Sirectifier:	STD70GK16	STD116GK16	STD165GK16	STD320GK16
Ixys:	MCD72-16io1	MCD95-16io1	MCD162-16io1	MCD255-16io1

Wire colors: 1=blk 2=red 3=yellow Aa=violet Bb=orange Cc=blue Dd=white
Wire diam: 12abcd= 0.5mm, 3ABCD=1.5mm. Length 1+2: 80cm, ABCD abcd: 45cm