

BACK-PLANE LAYOUT

The diagram illustrates a back-plane layout for various electrical components. The main panel dimensions are 20 inches by 20 inches.

COLOR CODES:
BK - BLACK
RD - RED
WE - WHITE
YW - YELLOW
GN - GREEN
BE - BLUE
VT - VIOLET
GY - GRAY
OE - ORANGE

STRIPE CODES:
SOLID COLOR/STRIPE COLOR
e.g. White with Black stripe = WE/BK

WIRING INFO:
For all signal lines use 22AWG White (WE)
For all ground lines uses either Black (BK) or Gray (GY)
For all PE, use Green (GN) or Green/Yellow (GN/YW)
For 3-Phase AC:
L1 - Black (BK)
L2 - Red (RD)
L3 - White (WE)

24VDC - Blue (BE)
12VDC - Yellow (YW)
5VDC - Red (RD)

Use crimp ferrules on all terminal blocks.
For 22AWG, use 9210-1070
For 18AWG, use 9210-1071

Use ring terminals on all terminal post connections.
For #6 post, use 9210-1072
For #8 post, use 9210-1073
For #10 post, use 9210-1074

Use fork terminals where required.
For #6 post, use 9210-1075

Cover all uninsulated ring and fork terminals with heat-shrink.
All wires labeled with heat shrink labels.
9740-0048, 1/8" White Heatshrink w/black text
9740-0055, 3/16" White Heatshrink w/black text

HOW TO READ THIS SCHEMATIC:
TBw.xyz identifies Terminal block and position
w identifies which terminal block section
x identifies which terminal block
y identifies which side of block, R for Right, L for Left
z identifies which position of side y. T for Top, B for Bottom
Example: TB2.12LT
Terminal Block 2, Block #12, Left Top

All wires are labeled with connections, wire descriptions, wire number, wire gauge and color.
Parts are labeled with Identifier and SOSI Part number.
See below for example:

TB2.2RT CONNECTS TO WIRE DESCRIPTION W23 WIRE NUMBER YW WIRE GAUGE AND COLOR 22AWG YE S1 PART ID R1 9210-XXXXX

Title: S1400XX_EMS_10HP_DS
Version:
11/12/2014 6:30:10 PM
Drawn By: 1 / 7

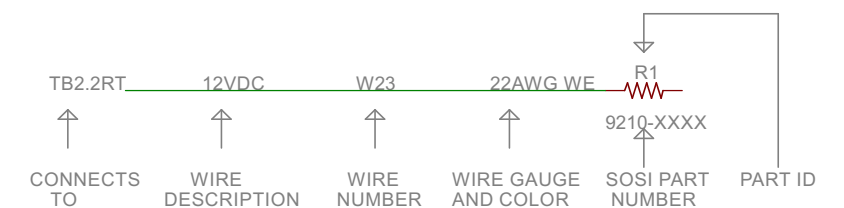
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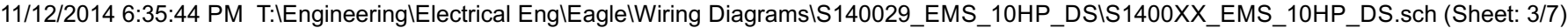
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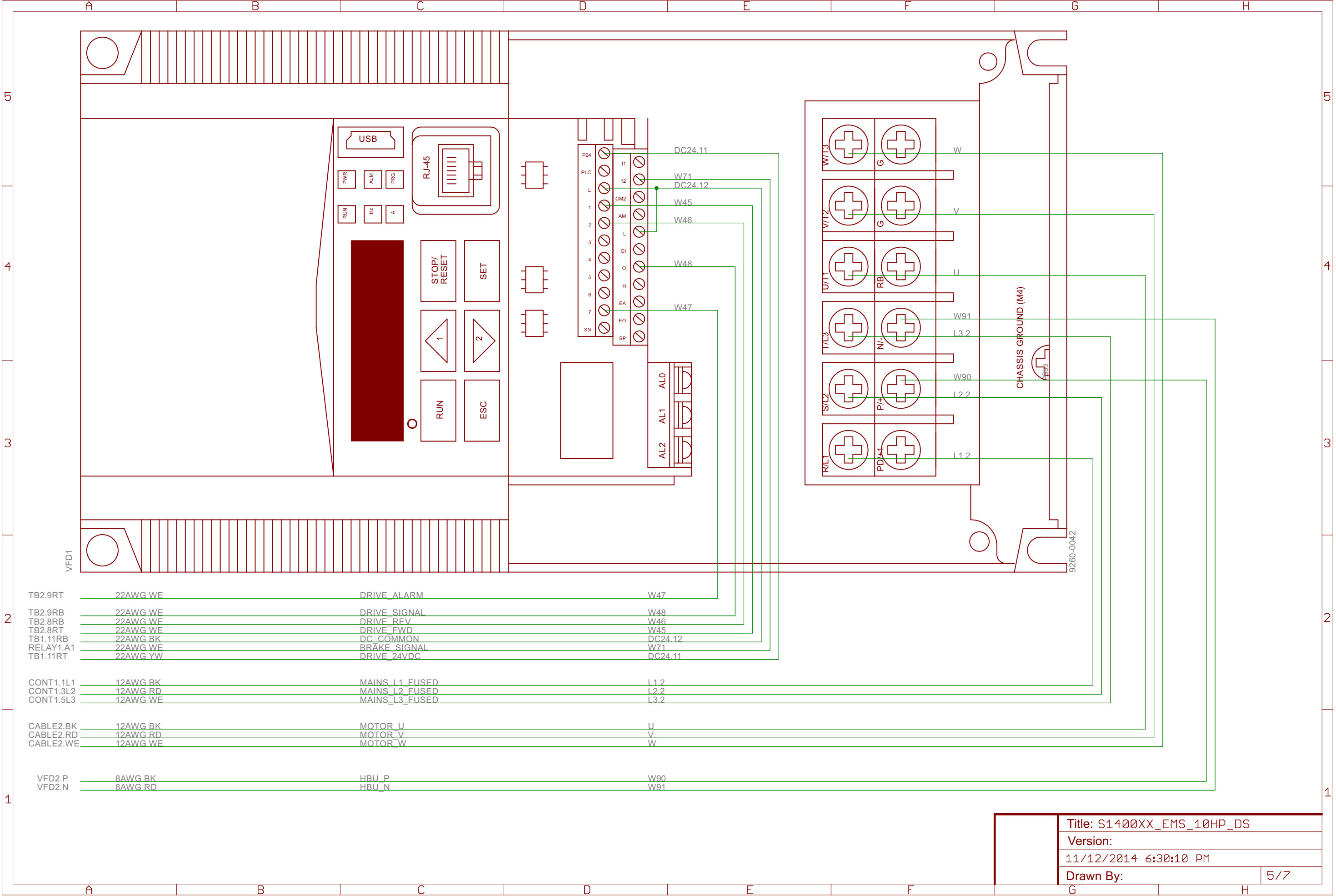
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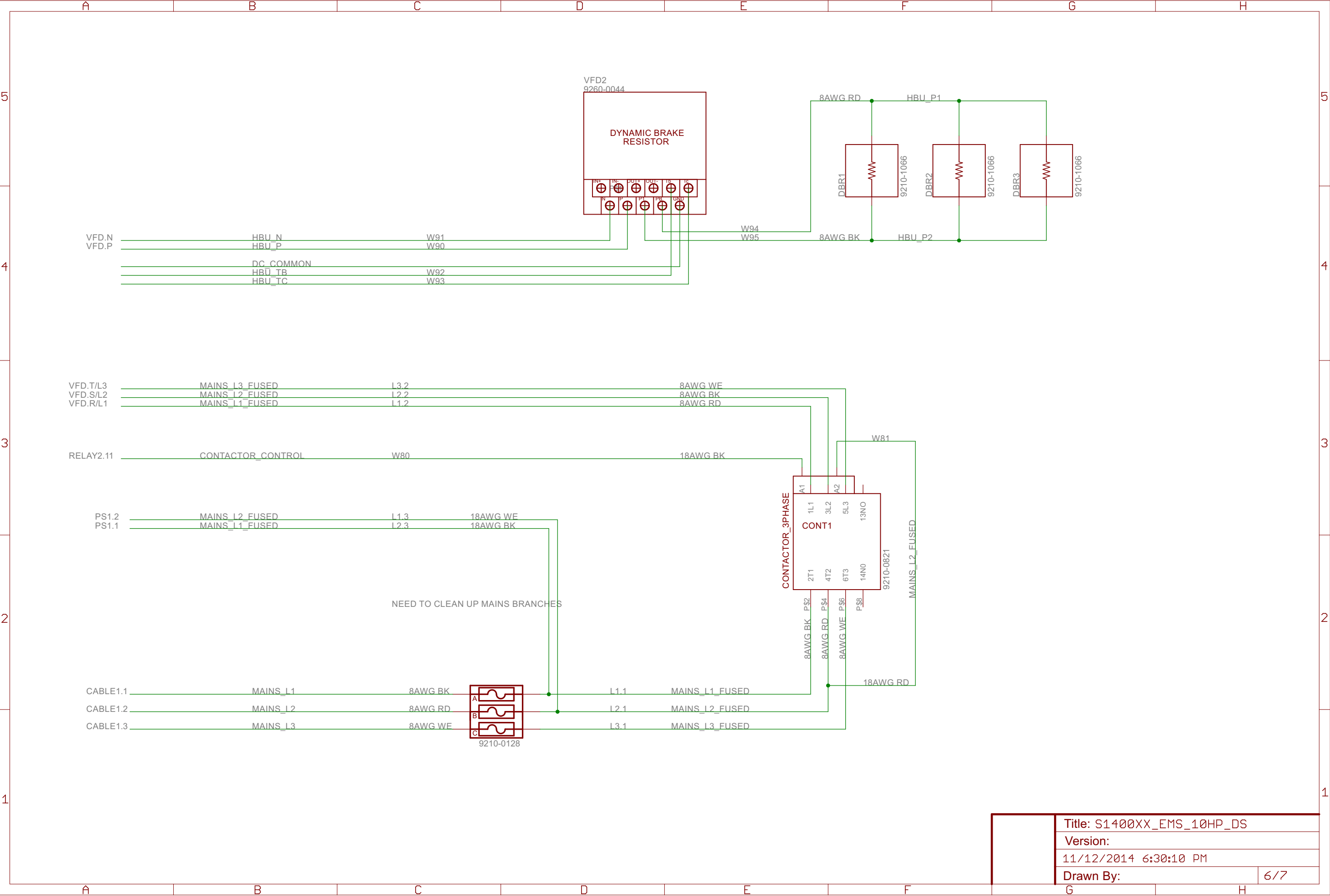


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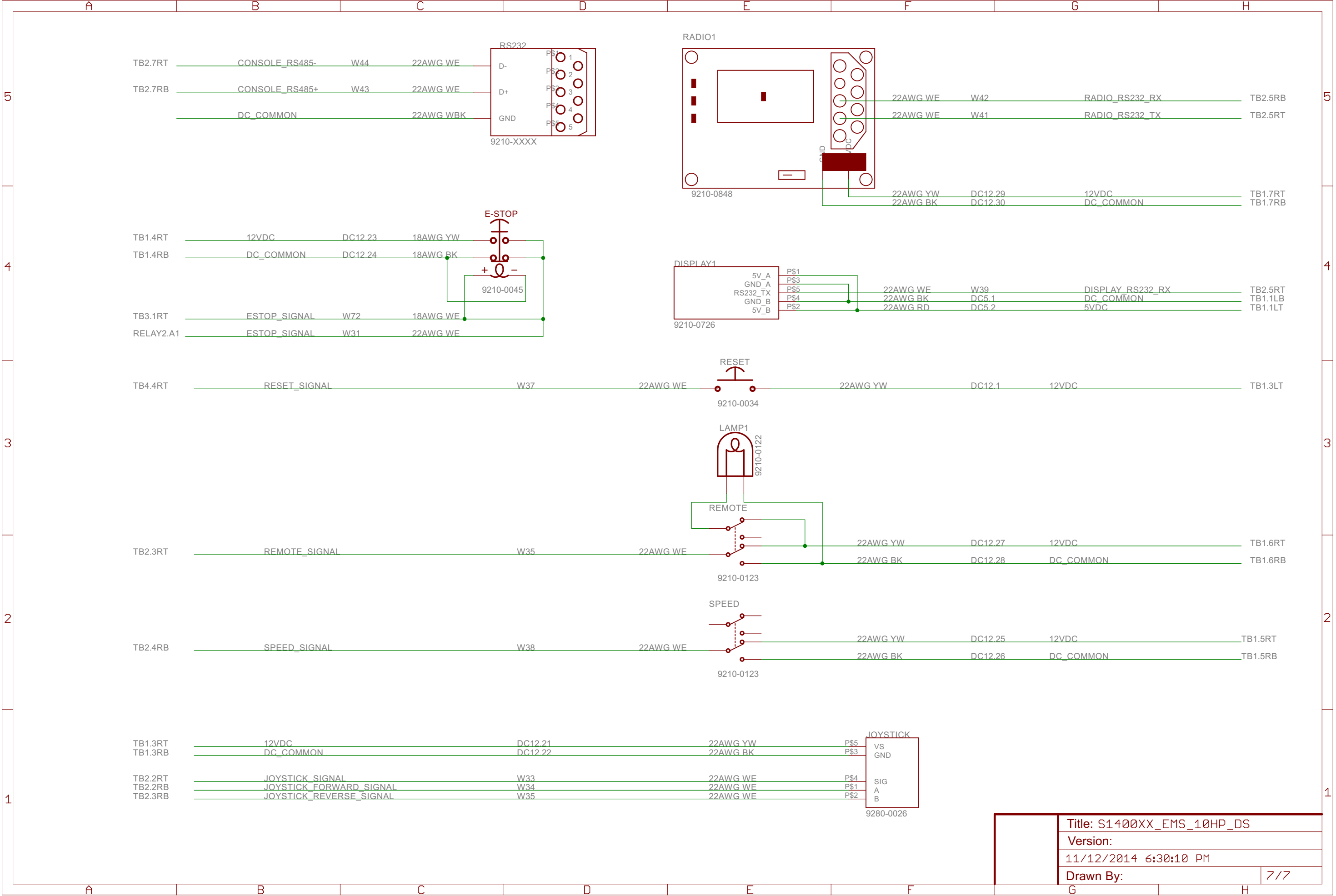




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Drawn By:	6/7



Title: S1400XX_EMS_10HP_DS	
Version:	
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Drawn By:	7/7