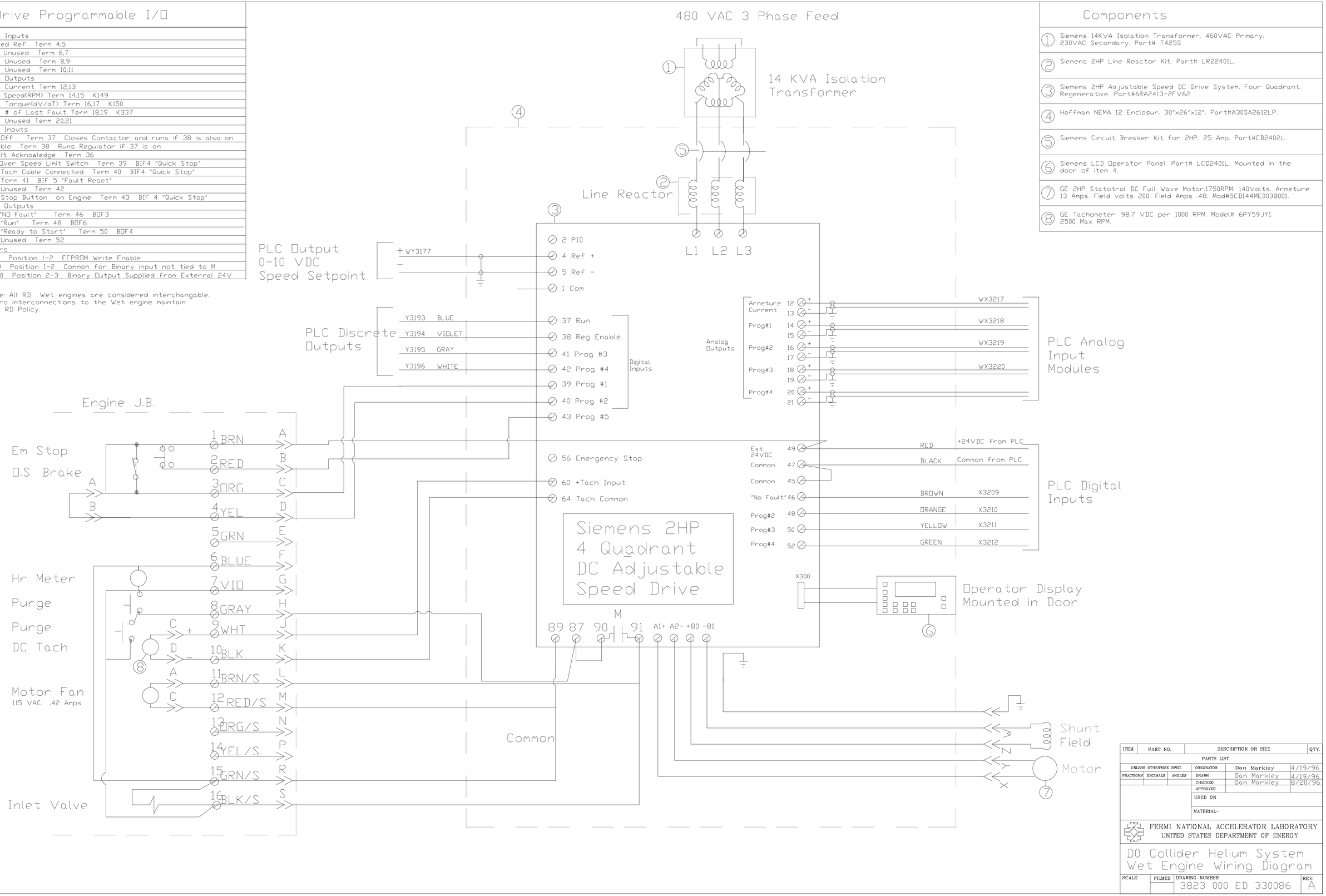
Drive Programmable I/O

Analog Inputs
Speed Ref Term 4,5
#1 Unused Term 6,7
#2 Unused Term 8,9
#3 Unused Term 10,11
Analog Outputs
Arm Current Term 12,13
#1 Speed(RPM) Term 14,15 K149
#2 Torque(dV/dT) Term 16,17 K150
#3 # of Last Fault Term 18,19 K337
#4 Unused Term 20,21
Binary Inputs
On/Off Term 37 Closes Contactor and runs if 38 is also on
Enable Term 38 Runs Regulator if 37 is on
Fault Acknowledge Term 36
#1 Over Speed Limit Switch Term 39 BIF4 "Quick Stop"
#2 Tach Cable Connected Term 40 BIF4 "Quick Stop"
#3 Term 41 BIF 5 "Fault Reset"
#4 Unused Term 42
#5 Stop Button on Engine Term 43 BIF 4 "Quick Stop"
Binary Outputs
#1 "NO Fault" Term 46 BOF3
#2 "Run" Term 48 BOF6
#3 "Ready to Start" Term 50 BOF4
#4 Unused Term 52
Jumpers
XJ1 Position 1-2 EEPROM Write Enable
XJ9 Position 1-2 Common for Binary input not tied to M
XJ10 Position 2-3 Binary Output Supplied from External 24V

Note: All RD Wet engines are considered interchangable. Dzero interconnections to the Wet engine maintain this RD Policy.



Components

1	Siemens 14KVA Isolation Transformer. 460VAC Primary. 230VAC Secondary. Part# T425S
2	Siemens 2HP Line Reactor Kit. Part# LR22401L.
3	Siemens 2HP Adjustable Speed DC Drive System. Four Quadrant. Regenerative. Part#6RA2413-2FV62
4	Hoffman NEMA 12 Enclosur. 30"x26"x12". Part#A30SA2612LP.
5	Siemens Circuit Breaker Kit for 2HP. 25 Amp. Part#CB2402L.
6	Siemens LCD Operator Panel. Part# LCD2401L. Mounted in the door of item 4.
7	GE 2HP Statotrol DC Full Wave Motor.1750RPM. 140Volts. Armeture 13 Amps. Field volts 200. Field Amps .48. Mod#5CD144ME003B001.
8	GE Tachometer. 98.7 VDC per 1000 RPM. Model# 6PY59JY1. 2500 Max RPM.

ITEM	PART NO.	DESCRIPTION OR SIZE	QTY.
PARTS LIST			

UNLESS OTHERWISE SPEC.				
FRACTIONS	DECIMALS	ANGLES	ORIGINATOR	Dan Markley 4/19/96
			DRAWN	Dan Markley 4/19/96
			CHECKED	Dan Markley 8/20/96
			APPROVED	
			USED ON	
			MATERIAL–	

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

D0 Collider Helium System Wet Engine Wiring Diagram

SCALE	FILMED	DRAWING NUMBER	REV.
		3823 000 ED 330086	A