

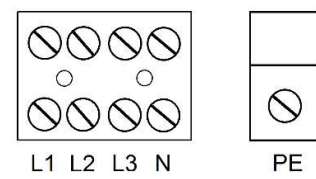
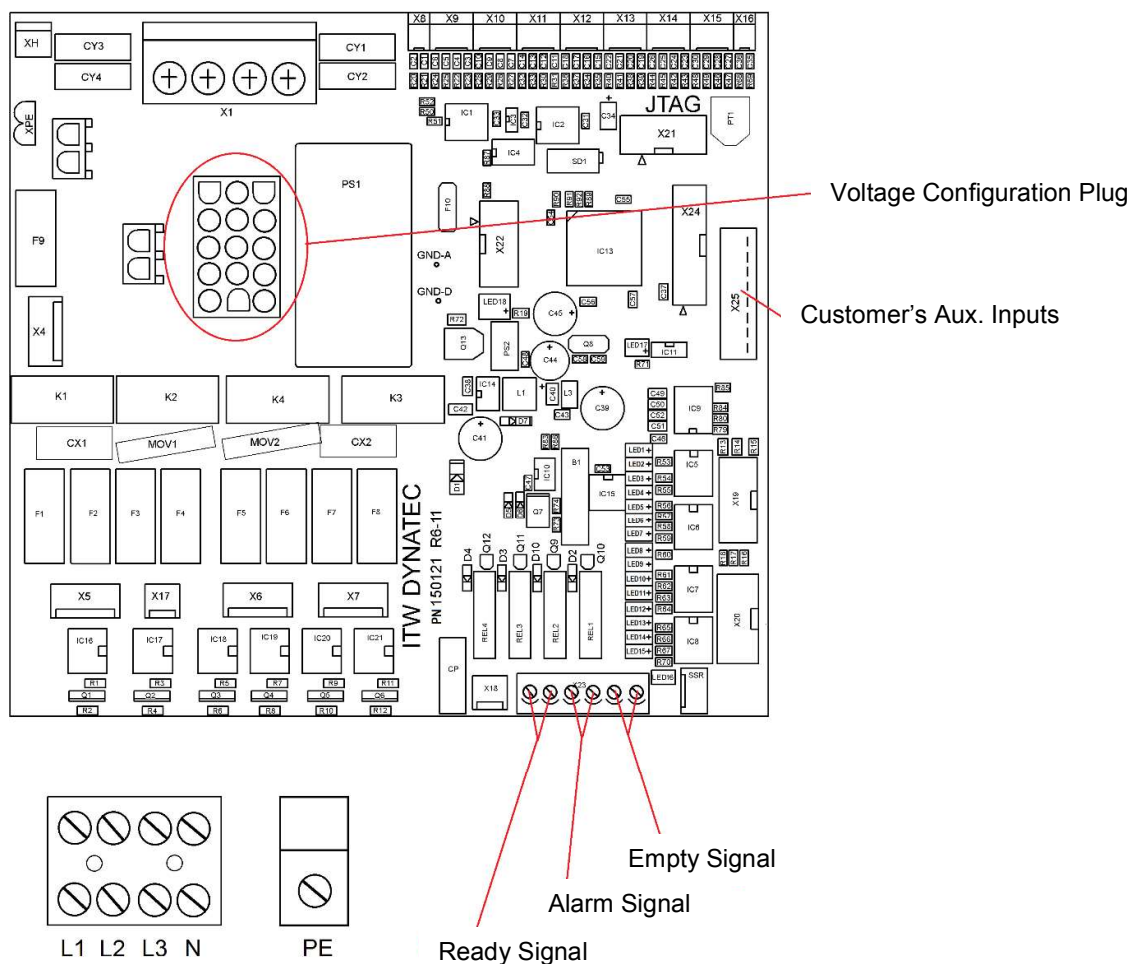


The voltage configuration connector is installed on the DynaControl V6 LCD Main Board (see board illustration below).

There are four different voltage configuration connectors available:

- for 240 VAC, 1ph (and 400/480VAC 3ph Δ) system, use P/N 150127* plug with blue wires.
- for 230 VAC, 1ph + N, use P/N 150127* plug with black wire.
- for 240 VAC, 3ph, Delta, use P/N 150127* plug with violet wires.
- for 230/400 VAC, 3ph + N, Wye, use P/N 150127* plug with yellow wires.

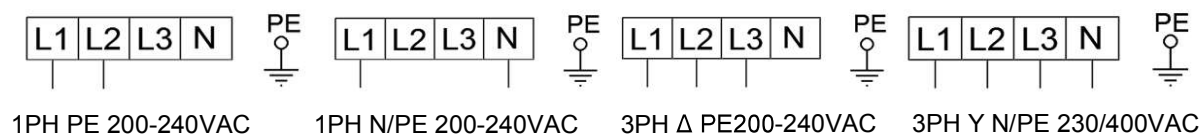
* The four configuration plugs come as a kit with one p/n. They can be distinguished by color and have corresponding voltage printed on them.



Main Voltage Supply

Illustration: DynaControl V6 LCD Main Board

Line input power wiring for each type power supply:



4. At installation, the customer must make the following terminal connections into the ASU's main power (ON/OFF) switch and modules.

Terminal	Circuit	Location
L 1, L 2, L 3, N	Input Power from Main Power	Base Frame Main Terminals
PE	Ground	Ground Lug
Non-essential connections; connect if feature is installed:		
RELAY OUTPUT 1	Ready Output Signal (contact closes when ready)	V6 Main Board, see drawing above
RELAY OUTPUT 2	Alarm Output Signal (contact opens when alarm)	
RELAY OUTPUT 3	Hopper Low Level Signal (contact closes when glue level is low)	
ST.BY	Standby Input	See chapter 7.2 and schematics for details
PU.ST.	External Pump Start/Stop (activate to start pump)	
IN-C.	Common for Inputs	

5. The air pressure regulator, gauge and solenoid valve assembly (located in the base frame on the front of the unit) are pre-installed.

Connect a one-quarter inch (1/4") airline to the female 1/4 NPT fitting on the bottom of the unit, located in the base frame. Air supplied to the unit must be regulated, clean and dry (see advices under point "Quality of compressed Air" on next page). Recommended supply pressure is 10 to 100 psi (0.7 to 6.8 bar).

To increase pressure, use a flat tip screw driver to turn the regulator valve clockwise. To decrease pressure, turn the regulator counter-clockwise. The recommended pressure is 0.7 to 6.8 bar (10 to 100 psi).

6. Nine hydraulic hose connection ports are located on the filter manifold. These ports are positioned to allow for up to six hoses to be routed either from the back of the unit, or from the right-hand side. It is recommended that you use a 45° fitting (available from ITW Dynatec) when using the three ports located on the corner of the filter manifold. ITW Dynatec recommends that hoses be connected to the bottom ports first, then the middle ports, and finally the top ports.
7. The hydraulic pressure gauge can be installed either in one of the hose ports or gauge port labeled "PRE PSI" indicating pressure before the filter.



WARNING HOT ADHESIVE

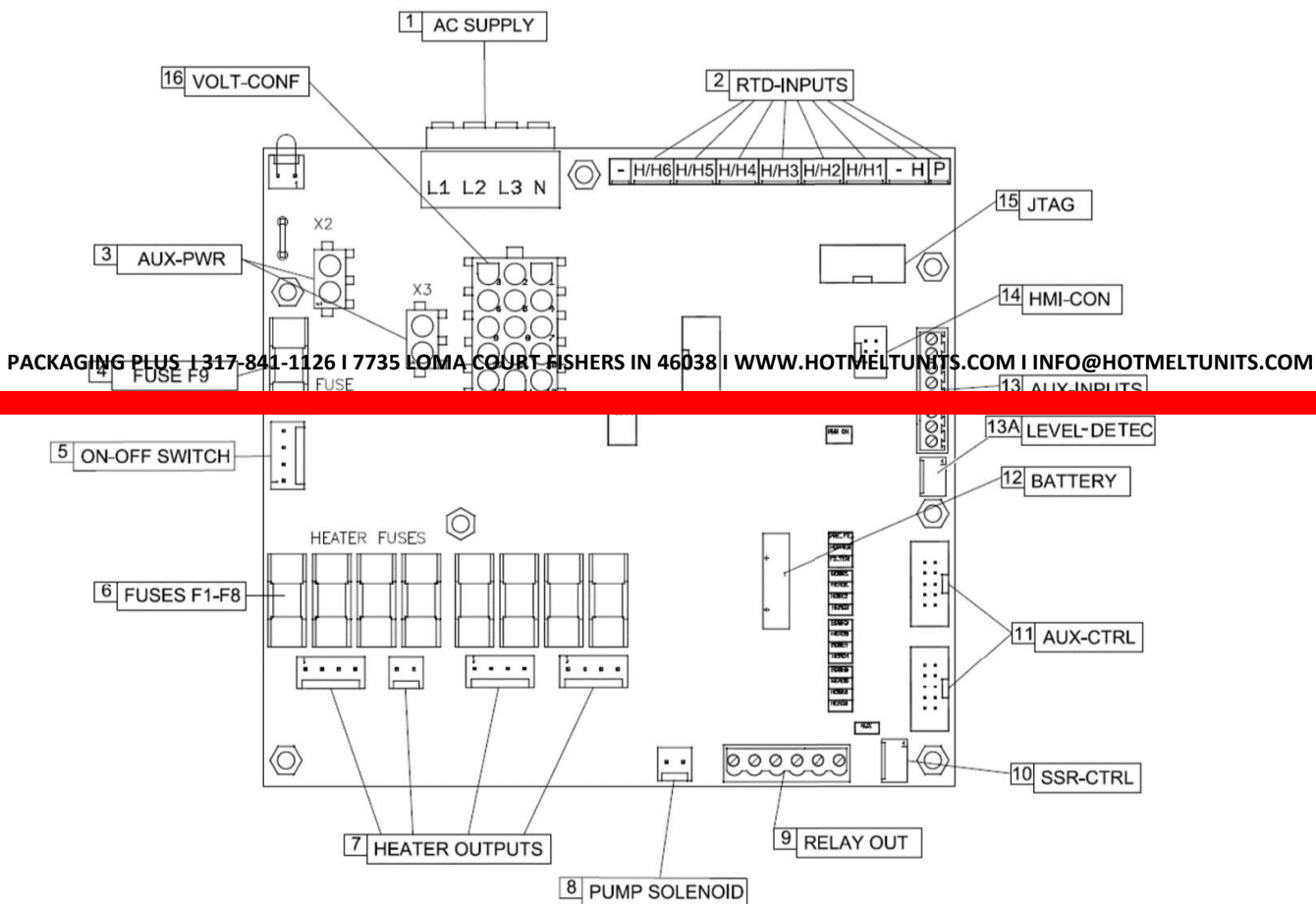
Do not remove the manifold cover. This cover should remain in place during operation in order to prevent burns and maintain the temperature of the filter manifold. Replace the foam cover if it becomes damaged or dirty.

7.2 V6 MAIN PCB PN 150146

The V6 Main PCB is the main control board of the DynaControl V6 controller. Most of the internal and external components are connected to this PCB.



ITW Dynatec recommends using dry contacts for connecting to DynaControl V6!



Description of Components

The following items are referenced to the illustration on previous page:

- **Item #1** AC input connected to the main supply terminal on the unit's base frame.
- **Item #2** RTD (Temperature sensor) inputs for all zones. Depending on configuration either PT100 or NI120 RTDs are used.
- **Item #3** Power connections to the aux-power boards. Depending on configuration those might not be used.

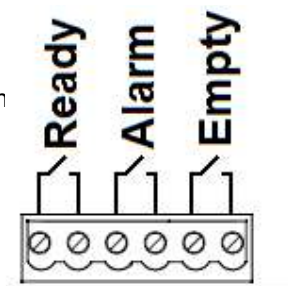
V6 MAIN PCB, cont.

- **Item #4** Fuse 1. This fuse protects the electronic board. Fuse rating: 2AT (2-amp slow blow)
- **Item #5** Connection to On/Off switch. Keep in mind that this switch does not completely disconnect voltage.
- **Item #6** Heater Fuses. Those fuses protect the individual heater circuits. Fuse rating: 10AF (10-amp fast). Replace only with appropriate spare fuses.
- **Item #7** Heater outputs. Connect to the heaters of the individual zones.
- **Item #8** Connection for Pump Solenoid. This 230VAC output gets energized when the pump is turned on and system is in ready condition.
- **Item #9** Auxiliary Output Relays.

Ready: this contact closes once the system is in ready condition (ready condition = all active temperature zones are within their tolerances and there is no other alarm message pending). Normally open.

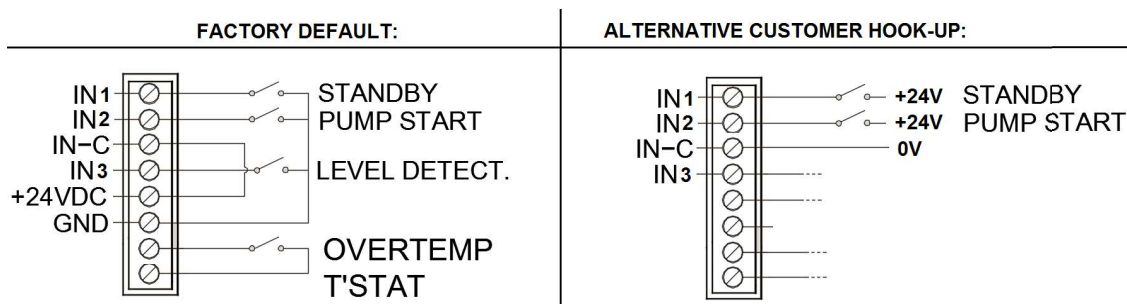
Alarm: this contact is normally closed. In case of an Alarm (over temp, RTD fault etc.) the contact will open.

Empty: this contact will close when the adhesive level is below a certain minimum. (optional)

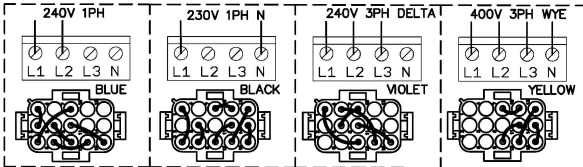


- **Item #10** SSR connection. In case heater circuits use additional Solid State Relays, those are connected here
- **Item #11** Control connections to aux-power boards. Depending on configuration, those might not be used.
- **Item #12** This battery is required to keep the internal clock for the 7-day scheduler running. If you notice the unit is losing the time/day setting it needs to be replaced. The battery type is CR2032.
- **Item #13** Auxiliary Inputs. This connector accepts external signals that can be used to control the ASU. The inputs require 24VDC signals. Although the internal 24VDC can be used to provide voltage for the inputs, it is recommended to use external 24VDC. For this purpose, the common of the signal inputs is available on terminal IN-C. and is isolated from the internal 24VDC.

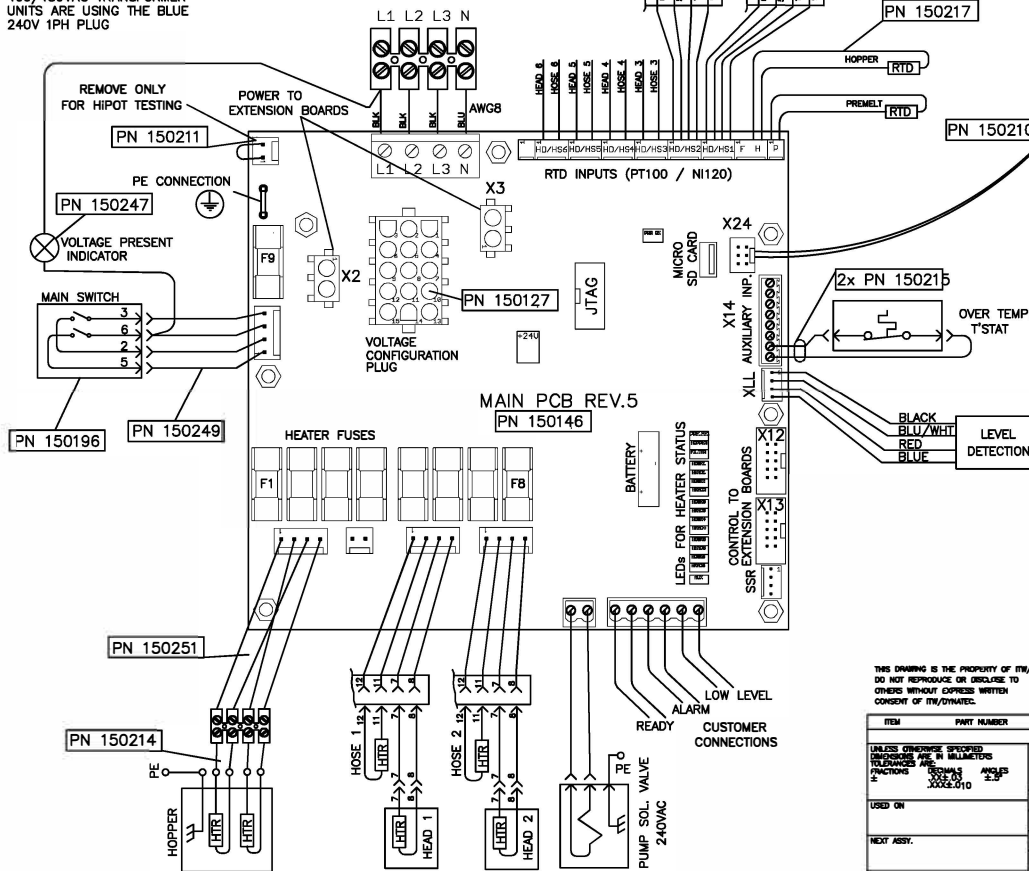
Inputs IN1 and IN2 are not polarity sensitive. That means the common (IN-C.) can either be positive or negative.



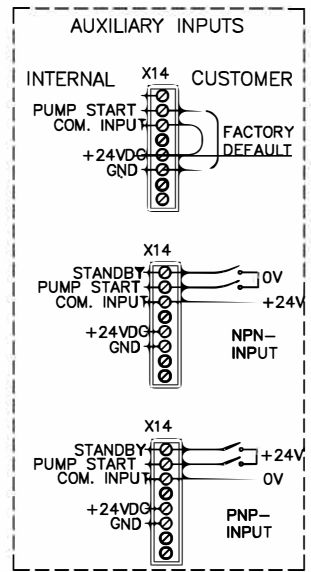
INPUT VOLTAGE CONFIGURATIONS



400/480VAC TRANSFORMER
UNITS ARE USING THE BLUE
240V 1PH PLUG

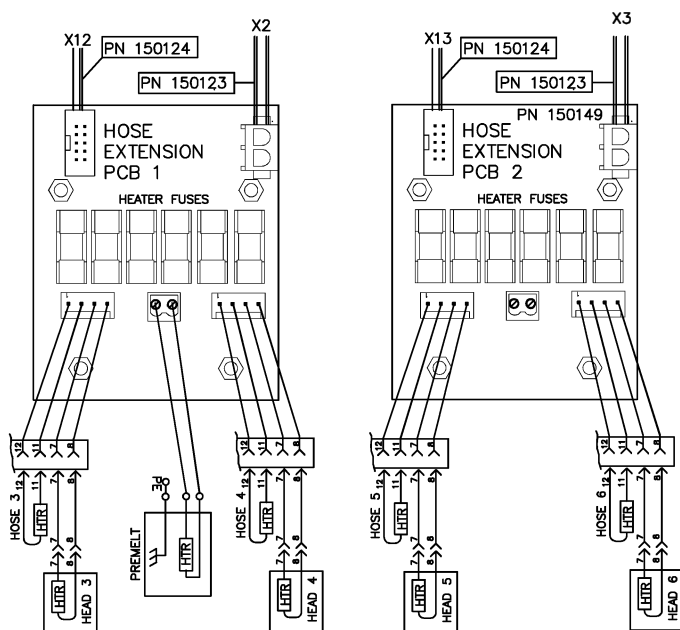
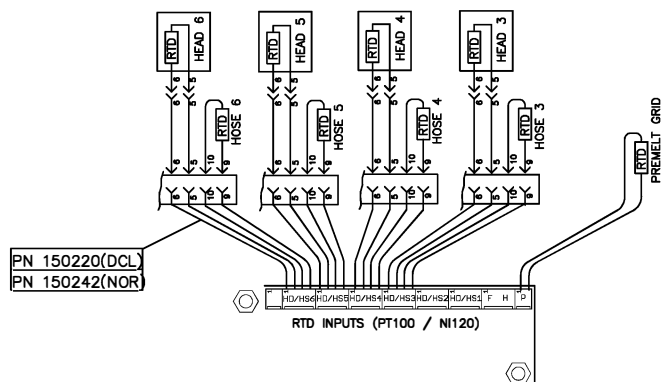


REVISIONS					
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
SIMPL	B	FIRST RELEASE	08.33.17	DH	
18150	D	MAIN PCB REV.5	11.26.18	DH	
ECN234	E	CORRECT MAIN SWITCH WIRING	03.07.19	BFQ	
19317	G	POWER ON LIGHT CHANGED	04.02.19	DH	

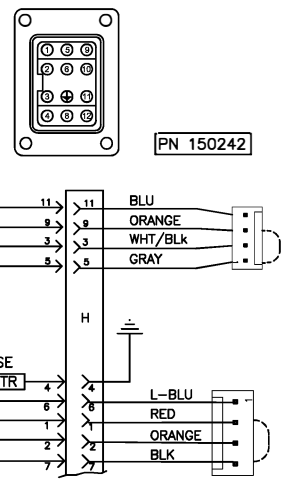


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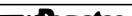
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PARTS LIST				
<div> <div> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: FRACTIONS DECIMALS ANGLES X.XX X.XX X.XX </div> <div> FOR MACHINING STANDARDS AND SYMBOLS, SEE ITW/DYNATEC SPEC. A05800 </div> </div>				
USED ON	APPROVALS	DATE	<div> </div>	
NEXT ASSY.	DRAWN	DH	<div> SIMPLICITY SCHEMATICS </div>	
DO NOT SCALE DRAWING	CHECKED		<div> COMPUTER DESCRIPTION(25 CHARACTERS) </div>	
	SIZE	B	<div> Dwg. No. 150212 </div>	<div> REV. G </div>
	SCALE	1:1	<div> CAD DRAWING </div>	<div> SHEET 1 of 2 </div>



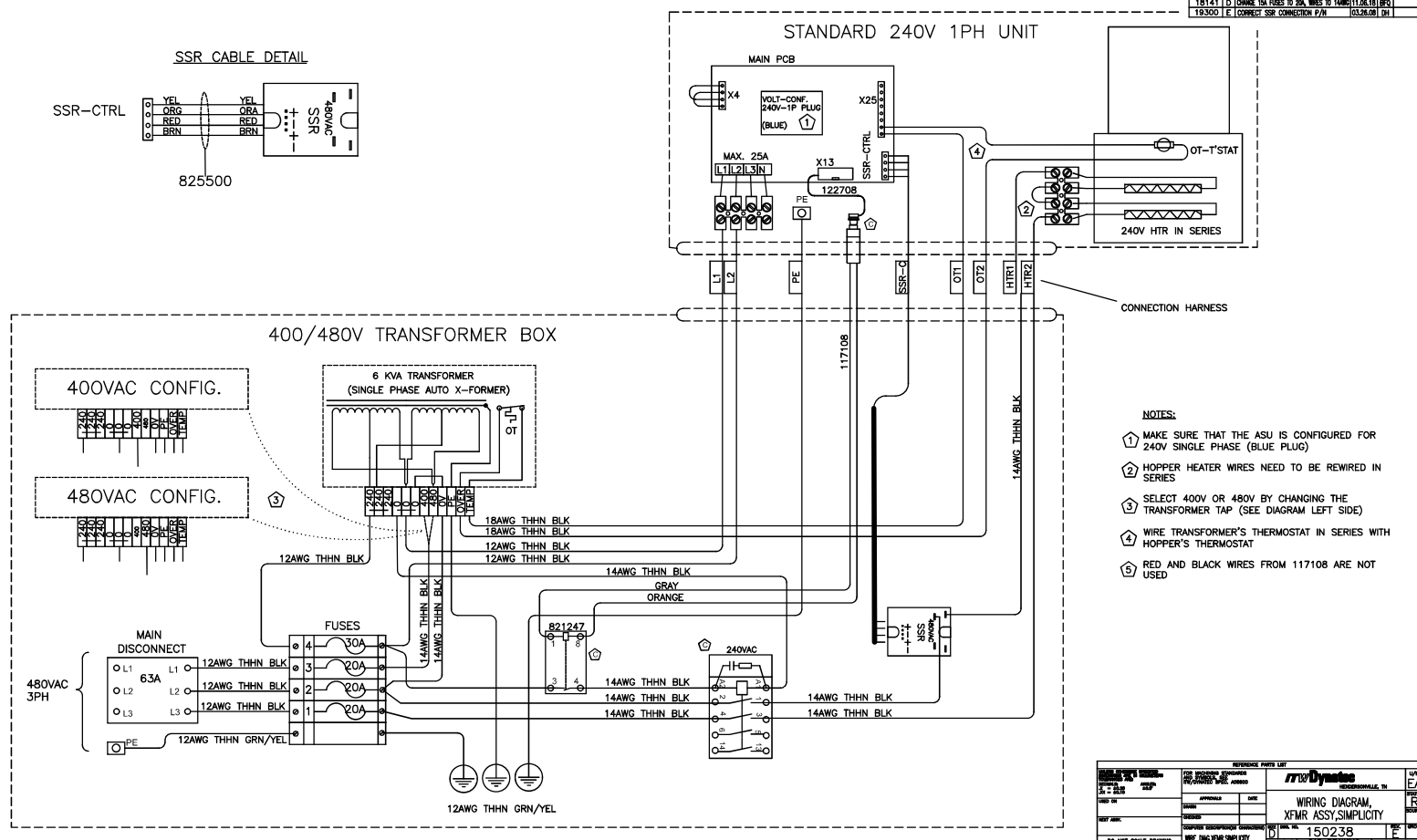
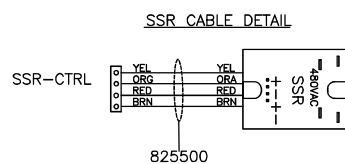
NORDSON®
COMPATIBLE
HOSE CONNECTORS





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ITEM		PART NUMBER		QTY.	U/M	DESCRIPTION		
						PARTS LIST		
<div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS FRACTIONS ARE DECIMALS XXX.XX XXX.XX XXX.XX</div>		<div>FOR MACHINING STANDARDS AND SYMBOLS, SEE ITW/DYNATEC SPEC. A05800</div>		<div> INDIANAPOLIS, IN</div>		U/M		
						STATUS		
						SOURCE		
						GROUP		
USED ON		APPROVALS		DATE		<div><div>SIMPLICITY SCHEMATICS</div><div>150212</div><div>G</div></div>		<div><div>EA</div><div>STATUS</div><div><div>A</div><div>GROUP</div></div></div>
NEXT ASSY.		DRAWN DH						
		CHECKED						
		COMPUTER DESCRIPTION(25 CHARACTERS)		SIZE (DWG. NO.)		REV.		
DO NOT SCALE DRAWING				SCALE 1:1		CAD DRAWING	SHEET 2 OF 2	

Transformer 400/480V Schematics, PN 150238



REVISIONS					
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
SIMPL	A	INITIAL RELEASE	3.13.17	DH	
—	B	PRERELEASE UPDATE	08.20.17	BFO	
18117	C	ADDED 24VDC AND 240VAC CONTACTORS	09.28.18	JJB	
18141	D	CHANGE 15A FUSES TO 20A, WIRES TO 14AWG	11.06.18	BFO	
19300	E	CORRECT SSR CONNECTION P/N	03.28.20	DH	

		REFERENCE PARTS LIST 		1/4" = 1"
FOR WINDING STANDARD ON/CONTROL NO. 000000		1000 INDUSTRIAL, IN		E
APPROX. 1000		APPROX. 1000		R
USED IN		APPROVAL DATE		WIRING DIAGRAM, XFMR ASSY, SIMPLICITY
TEST AREA		APPROVAL DATE		150238
DO NOT SCALE DRAWING		COMPUTER REPRODUCTION OK/CONTROL NO. 000000		150238
WIRE DIAGRAM, SIMPLICITY		150238		150238