DEXTER LAUNDRY

Dexter Industrial On Premise Dryer

Troubleshooting, Fault Codes, And Schematics

Starting serial number

Part # 8533-077-001 11/13

Dryer Trouble Shooting

Symptom	Probable Cause	Suggested Remedy
Tumbler does not turn	Drive belts	Check both drive belts. Replace if failed.
	Tumbler does not turn	Check capacitor and motor. Replace if failed
	Door switch	Check door switch contacts and adjustment. Adjust or replace door switch.
	Timer Tumbler does not turn	Check to see if heat timer is turned on
Tumbler turns but no spark at burner	Glass fuse	Check small glass control fuse in back of dryer. Replace if failed.
	Thermostat	Check if voltage is passing through the two wires attached to the temoprature thermostat
	Ignition	Check for 24VAC output from transformer.
	Transformer	Replace if have 120V between black & white and no 24V between red and yellow.
	Over temperature	Check to see if manually resettable thermostat. Thermostat is kicked out. Reset by pushing red reset button.
	Ignition control	Check for 24VAC coming into the control on the at burner red wire. If voltage, then check for 24VAC out on the brown wire. Also check for spark at the ignitor. If no 24VAC output or no spark to the ignitor, replace ignition control.
	Air Flow Switch	Check air flow switch to be sure it closes when dryer is running. If not, adjust or replace switch.
	Hi-limit	Check for continuity. Should be 0 ohms resistance when cold. If not, replace thermostat.
	Gas supply	No gas can cause system lockout

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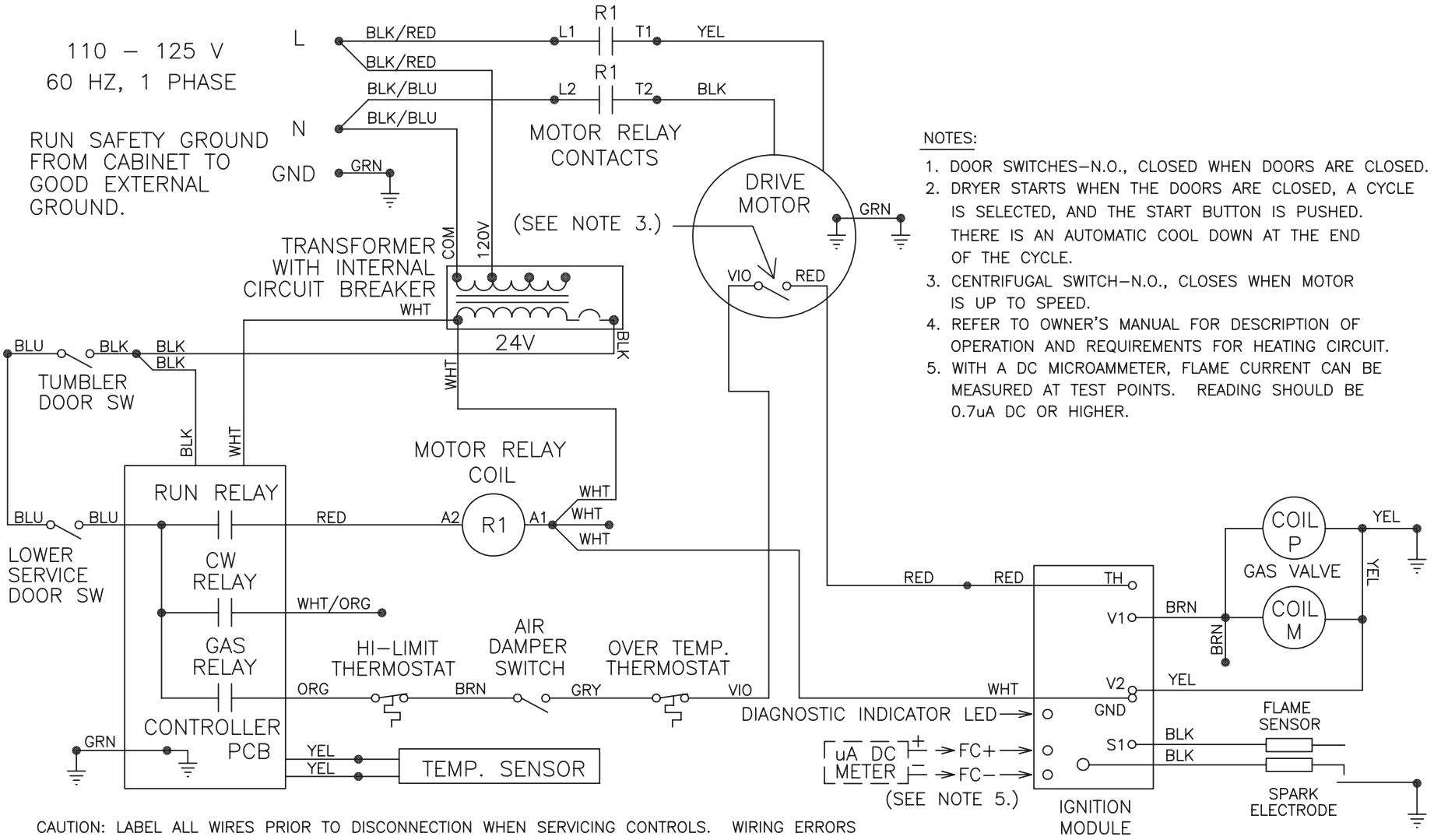
Dryer Trouble Shooting

Symptom	Probable Cause	Suggested Remedy
Tumbler turns, ignition sparks, no flame	Gas supply	Make sure gas supply is working.
	Gas pressure	Make manometer check of gas pressure. Adjust if necessary.
	Spark Electrode Sensor	Check for damage to electrode or mounting. Replace if necessary.
	Gas valve	Check coil continuity, replace valve if failed.
	Ignition Control	Check for 24VAC to gas valve coils. If no voltage replace ignition control.
Burner Lights, but goes on and off	Electrodes	Check low voltage harness for possible wire break or cuts to allow no signal back to ignition control
Slow drying	Temperature Setting	Check thermostat for correct high temperature setting. Adjust if necessary.
	Air flow restrictions necessary	1. Check lint screen and clean if necessary. 2. Check exhaust for correct length and clean if necessary. 3. Check exhaust damper to insure that it opens when dryer is running and closes when dryer is not in use. 4. Check makeup air to insure that it is adequate. Increase makeup air if necessary. 5. Check static Back pressure no more than .3
Manual overtemp Tripping Frequently	Recirculating chamber Lint Accumulation	Remove manual overtemp thermostat and inspect in chamber for excessive lint build up. Access also gained to this chamber by removing recirculation duct mounted at bottom of chamber, or the panel inside burner chamber between burners and rear back panel
	Exhaust ducting Excessive lint buildup	Remove exhaust duct at rear of dryer and inspect for excessive lint build up in complete duct from dryer to where duct exits building.
	Clean lint from top heat air chamber above tumbler	Remove front panel completely. Be careful of any wiring attached. Remove heated air chamber cover and clean above tumbler back to burner housing.

DRYER FAULT CODES

FAULT #	FAULT DESCRIPTION	ACTION
F1	Shorted thermostat sensor.	Dryer stops and "F1" flashes on the 4-digit display. When short circuit on sensor input is removed, "LOAd" appears on the 4-digit display and the remaining dry time is reset.
F2	Open thermostat sensor.	Dryer stops and "F2" flashes on the 4-digit display. When a good sensor is connected to sensor input, "LOAd" appears on the 4-digit display and the remaining dry time is reset.
F3	EEPROM corrupted	Dryer will not start and "F3" appears on the 4-digit display. The power to the dryer must be cycled to reset the controller. Fault should only occur when starting a dry cycle.
F4	Gas valve on fault.	The drying temperature did not increase 1°F. in 5 minutes. "F4" will flash on the display and the dry cycle will finish without calling for heat (energizing gas valve). Opening the door or pressing the STOP touch pad switch will reset the fault and clear the remaining time in the dry cycle.
F5	Temperature fault	The drying temperature is at least 25°F. above the temperature setting. "F5" will flash on the 4-digit display and the dry cycle will finish without calling for heat (energizing the gas valve). The power to the dryer must be cycled to reset the controller.

Wiring Schematic for 60hz Dryer -10



NOTES:

1. DOOR SWITCHES–N.O., CLOSED WHEN DOORS ARE CLOSED.
2. DRYER STARTS WHEN THE DOORS ARE CLOSED, A CYCLE IS SELECTED, AND THE START BUTTON IS PUSHED. THERE IS AN AUTOMATIC COOL DOWN AT THE END OF THE CYCLE.
3. CENTRIFUGAL SWITCH–N.O., CLOSES WHEN MOTOR IS UP TO SPEED.
4. REFER TO OWNER'S MANUAL FOR DESCRIPTION OF OPERATION AND REQUIREMENTS FOR HEATING CIRCUIT.
5. WITH A DC MICROAMMETER, FLAME CURRENT CAN BE MEASURED AT TEST POINTS. READING SHOULD BE 0.7uA DC OR HIGHER.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

ATTENTION. AU MOMENT DEL'ENTRTIEN DES COMMANDES, ÉTIQUETEZ TOUS LES FILS AVANT DE LES DÉBRANCHER. DES ERREURS DE CÂBLAGE PEUVENT ENTRAÎNER UN FONCTIONNEMENT INADÉQUAT ET DANGEREUX. S'ASSURER QUE L'APPAREIL FONCTIONNE ADÉQUATEMENT UNE FOIS L'ENTRETIEN TERMINÉ.

9506–475–001E

SCHEMATIC

DCBD30HC_–10
DCBD50HC_–10
DCBD80HC_–10

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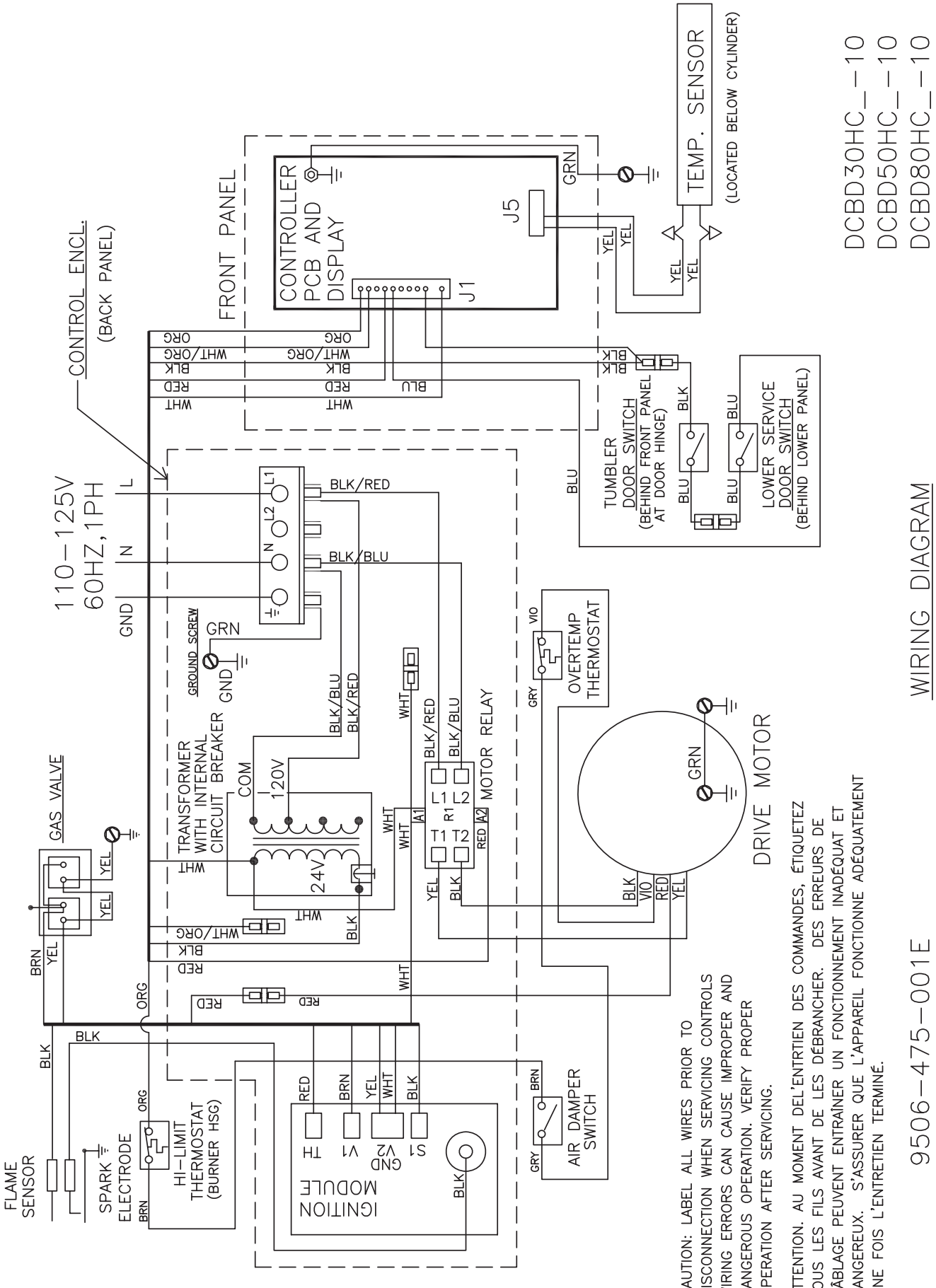
Wiring Diagram for 60hz Dryer -10



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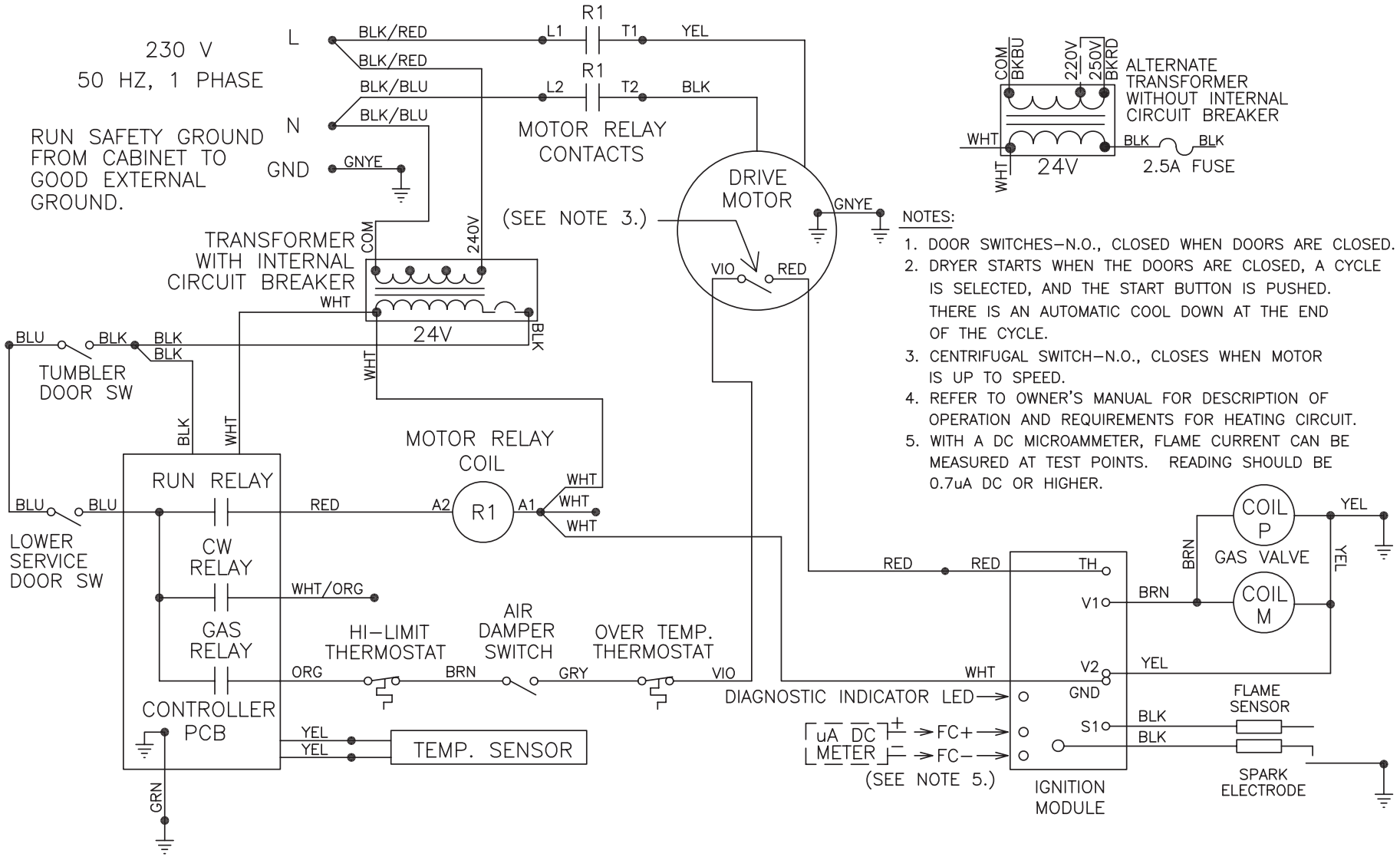
Wiring Schematic for 50hz Dryer -39



9506–496–001A

SCHEMATIC

DCBD30HC_–39
DCBD50HC_–39
DCBD80HC_–39

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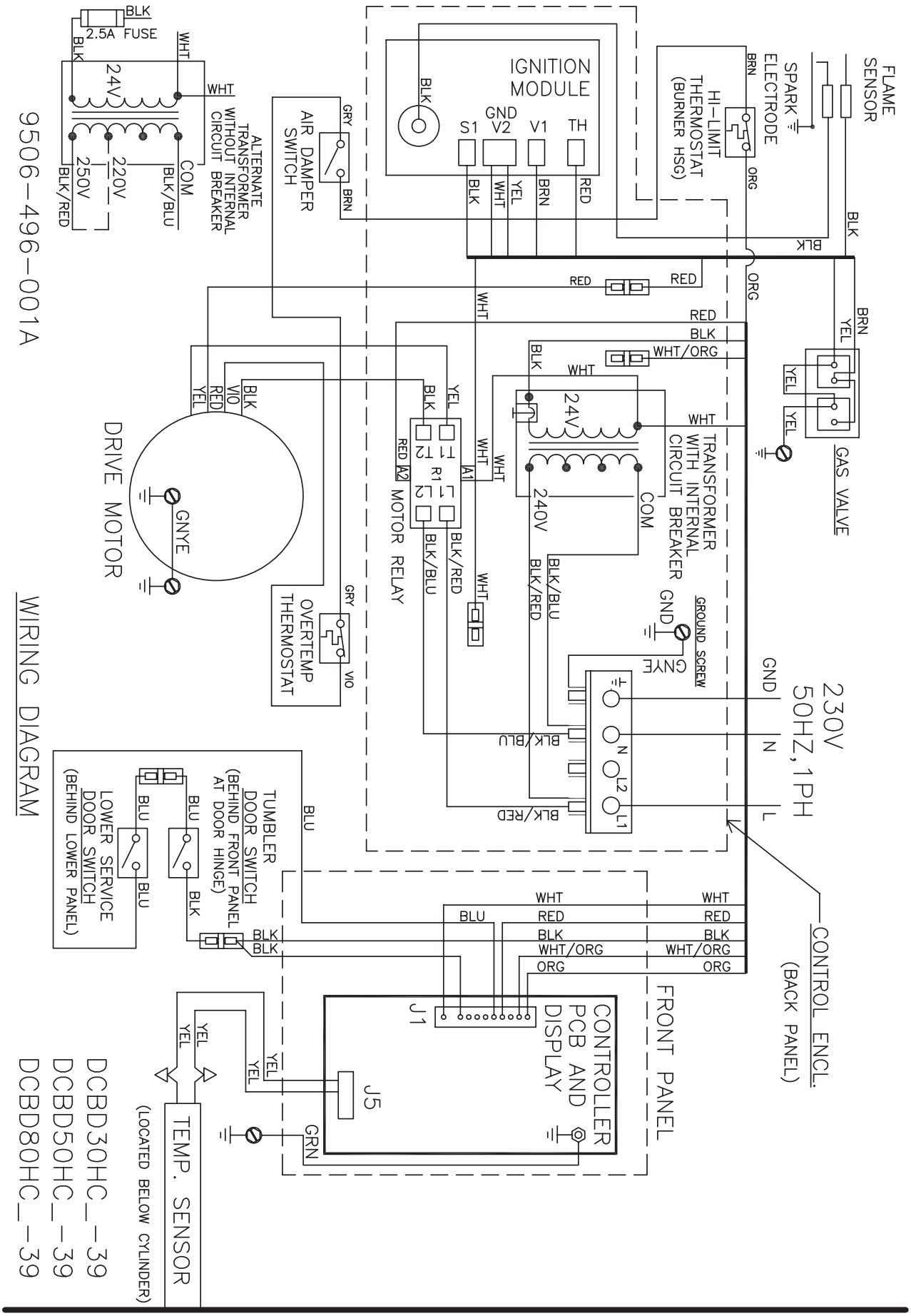
Wiring Diagram for 50hz Dryer -39



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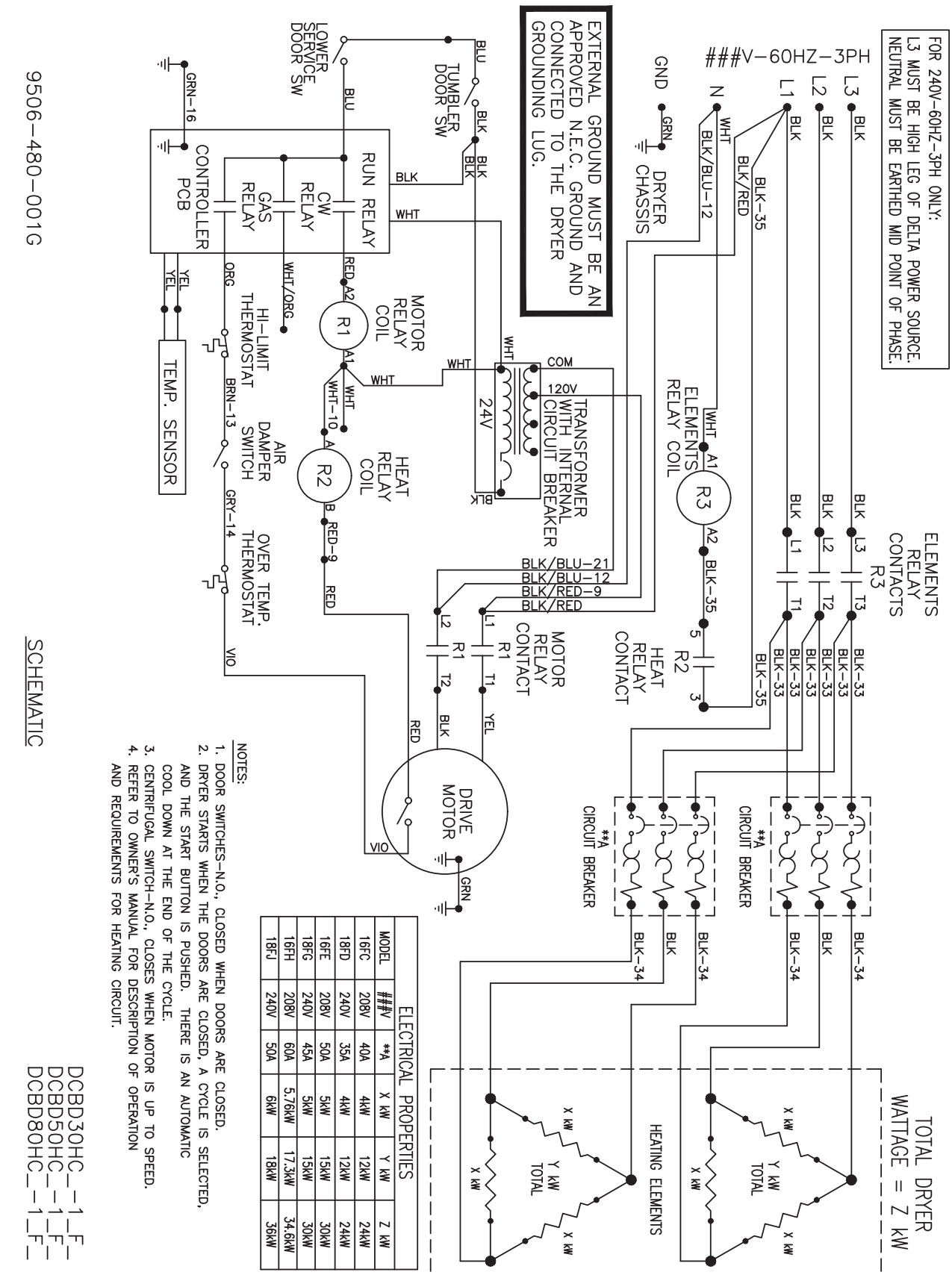
Wiring Schematic for 60hz Dryer -Electric Heat



ELECTRICAL PROPERTIES					
MODEL	###V	**A	X kW	Y kW	Z kW
16FC	208V	40A	4kW	12kW	24kW
18FD	240V	35A	4kW	12kW	24kW
16FE	208V	50A	5kW	15kW	30kW
18FG	240V	45A	5kW	15kW	30kW
16FH	208V	60A	5.76kW	17.3kW	34.6kW
18FJ	240V	50A	6kW	18kW	36kW

NOTES:

1. DOOR SWITCHES-N.O., CLOSED WHEN DOORS ARE CLOSED.
2. DRYER STARTS WHEN THE DOORS ARE CLOSED, A CYCLE IS SELECTED, AND THE START BUTTON IS PUSHED. THERE IS AN AUTOMATIC COOL DOWN AT THE END OF THE CYCLE.
3. CENTRIFUGAL SWITCH-N.O., CLOSES WHEN MOTOR IS UP TO SPEED.
4. REFER TO OWNER'S MANUAL FOR DESCRIPTION OF OPERATION AND REQUIREMENTS FOR HEATING CIRCUIT.

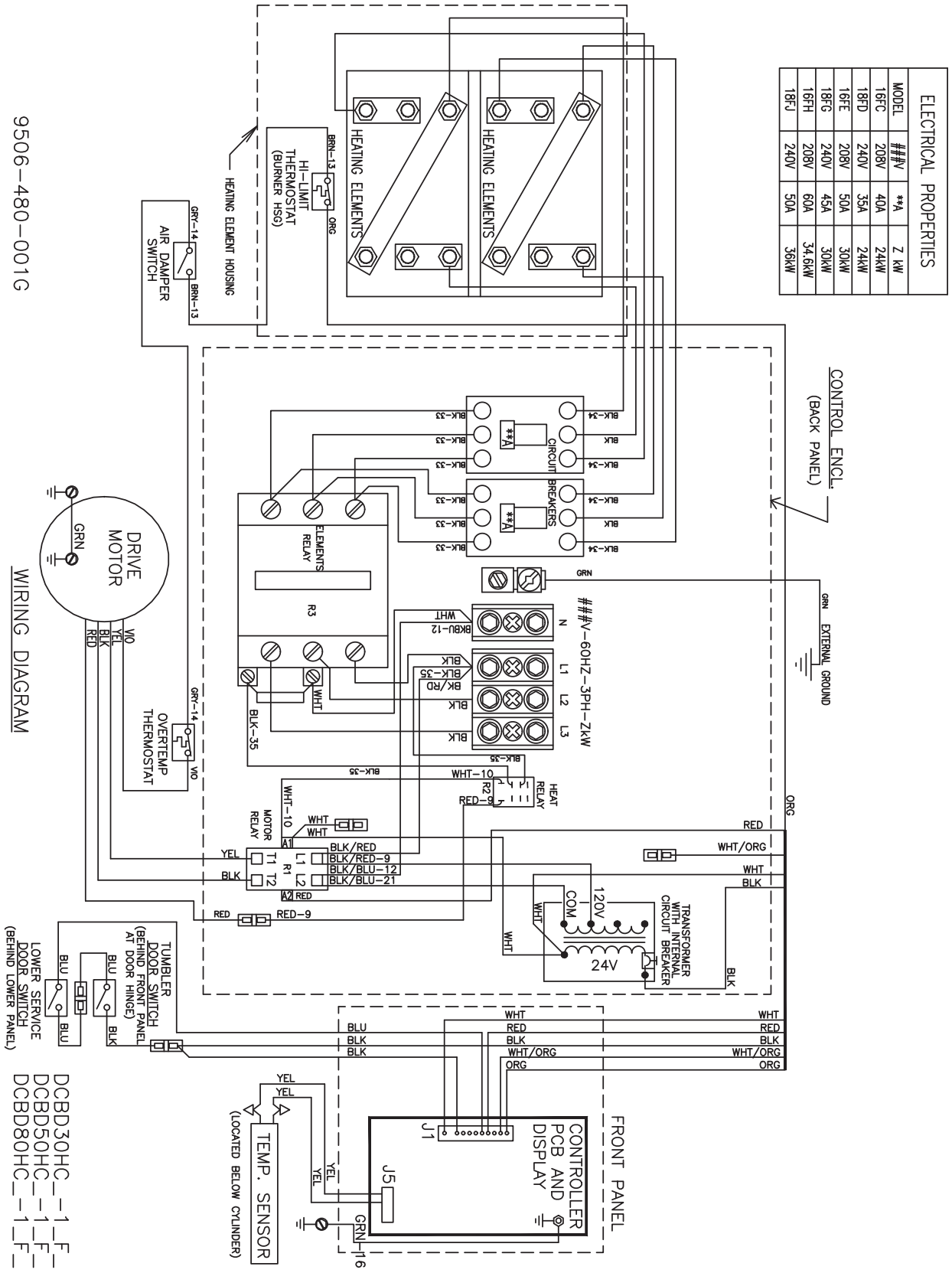
SCHEMATIC

9506-480-001G

DCBD30HC_-1_F_
DCBD50HC_-1_F_
DCBD80HC_-1_F_

Wiring Diagram for 60hz Dryer -Electric Heat

ELECTRICAL PROPERTIES			
MODEL	###V	**A	Z kW
16FC	208V	40A	24kW
18FD	240V	35A	24kW
16FE	208V	50A	30kW
18FG	240V	45A	30kW
16FH	208V	60A	34.6kW
18FJ	240V	50A	36kW



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Wiring Diagram for 50hz Dryer -64FP