



Top Dry Fan And Heater



Service
Manual

PNEG-378



AIRSTREAM
a division of
THE GSI GROUP



AIRSTREAM

1994 TOPDRY

FAN AND HEATER WIRING

GENERAL SPECIFICATIONS

	24"	28"	36"	42"	42"
				10-16HP	30HP
Length	49"	49.1/2"	56.5/8"	61.3/4"	61.3/4"
Weight (in pounds)*	244/218	553/513	852/825	943/913	1143
Fan H.P.	7.5-10	10-14	15	15	30
Motor Speed (RPM)	3500	3500	1750	1750	1750
Full Load Amps (240 Volt 1 Phase)	39	57	83	83	--
Full Load Amps (240 Volt 3 Phase)	25	38	42	42	74
Full Load Amps (480 Volt 3 Phase)	13	19	21	21	37
Minimum Wiring Conductor Size **					
50 ft. run	10/12	8/10	6/8	6/8	2
100 ft. run	6/10	4/6	2/4	2/4	2
200 ft. run	4/6	3/4	1/3	1/3	1
300 ft. run	2/4	1/3	0/2	0/2	0
Fuse Size for Motor Branch					
Circuit Protection (Time Delay)	60/30	125/60	150/90	150/90	150
BTU Rating	2.2M	3.0M	5.0M	5.5M	7.5M
Max Fuel Flow (GPH)	21	32	43	54	59
Liquid					
Orifice Size	7/32"	1/4"	21/64"	11/32"	7/16"
Min Operating Pressure	1	1	1	1	1
Models					
Max Operating Pressure	20	20	20	20	20
Min Line Size (Inches)	3/8	3/8	1/2	1/2	1/2
Max Fuel Flow (CU FT/HR)	800	1185	1590	--	--
Vapor					
Orifice Size	7/32"	1/4"	21/64"	--	--
Min Operating Pressure	1	1	1	--	--
Models					
Max Operating Pressure	20	20	20	--	--
Min Line Size (Inches)	3/4	1	1	--	--
Max Fuel Flow (CU FT/HR)	2100	3000	4200	5300	5300
Nat Gas					
Orifice Size	21/64"	3/8"	1/2"	33/64"	19/32"
Min Operating Pressure	1	1	1	1	1
Models					
Max Operating Pressure	7	7	7	7	7
Min Line Size (Inches)	1	1.25	1.50	2	2

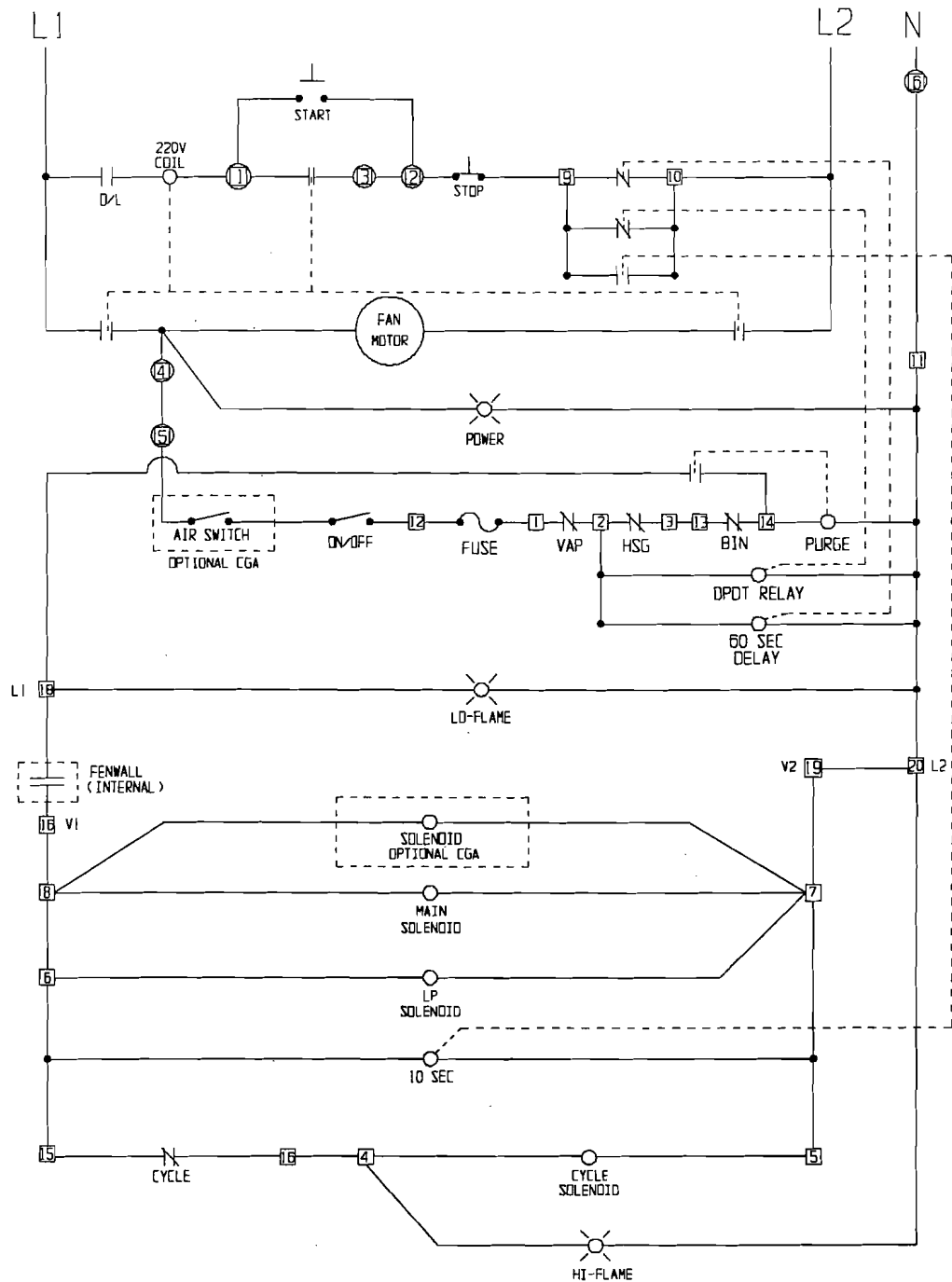
GSI recommends that you contact your local power company and have a representative survey your installation so your wiring will be compatible with their system and so that you will have adequate power supplied to your unit.

*First value given is for single phase units and the second value is for three phase units.

**Values given are for copper wire, if aluminum is used increase wire sizes by 2.

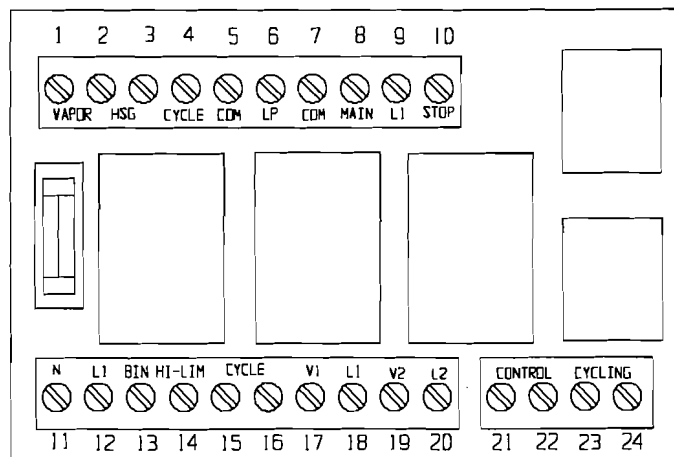
TOP DRY FAN AND HEATER SCHEMATIC

220 VOLT 1 PHASE



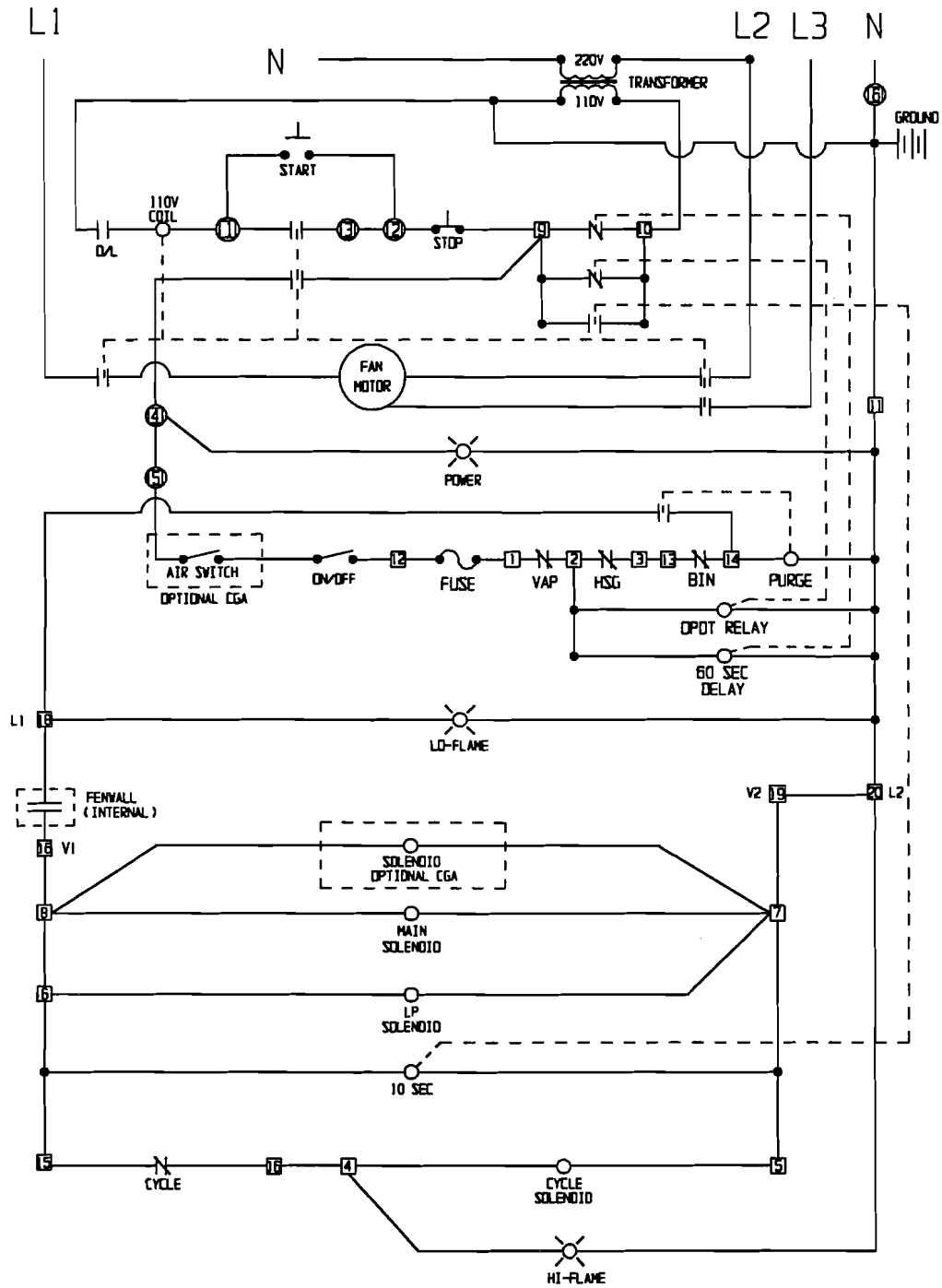
Ⓜ 8 POS TERMINAL STRIP



Ⓜ TF-1241 CONTROL BOARD TERMINAL

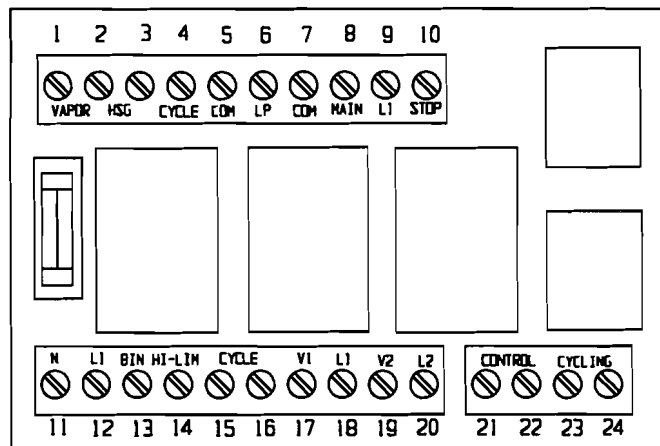


TOP DRY FAN AND HEATER SCHEMATIC

380 VOLT 3 PHASE (4 WIRE)

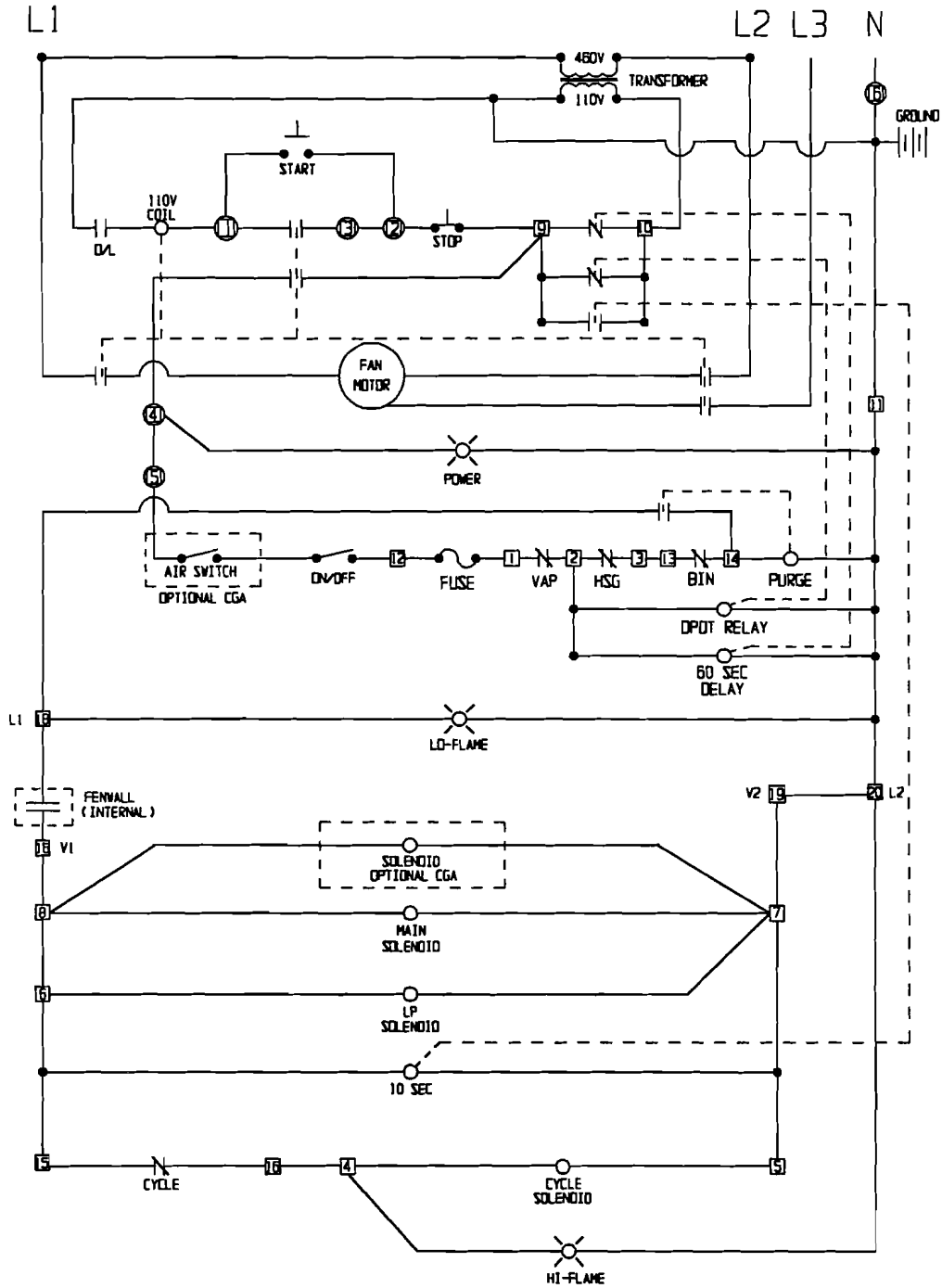


 8 POS TERMINAL STRIP
 TF-1241 CONTROL BOARD TERMINAL

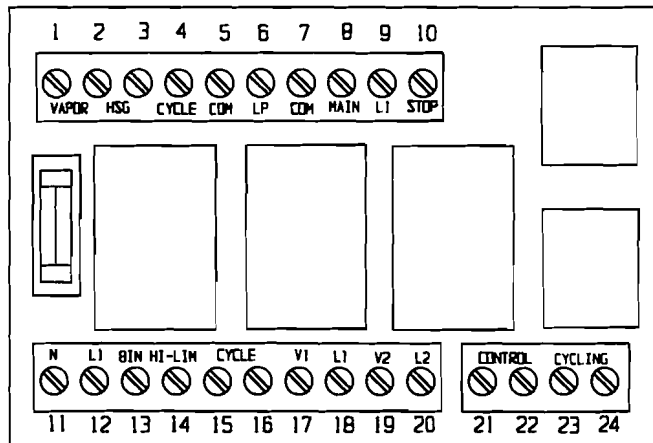


TOP DRY FAN AND HEATER SCHEMATIC

460 VOLT 3 PHASE

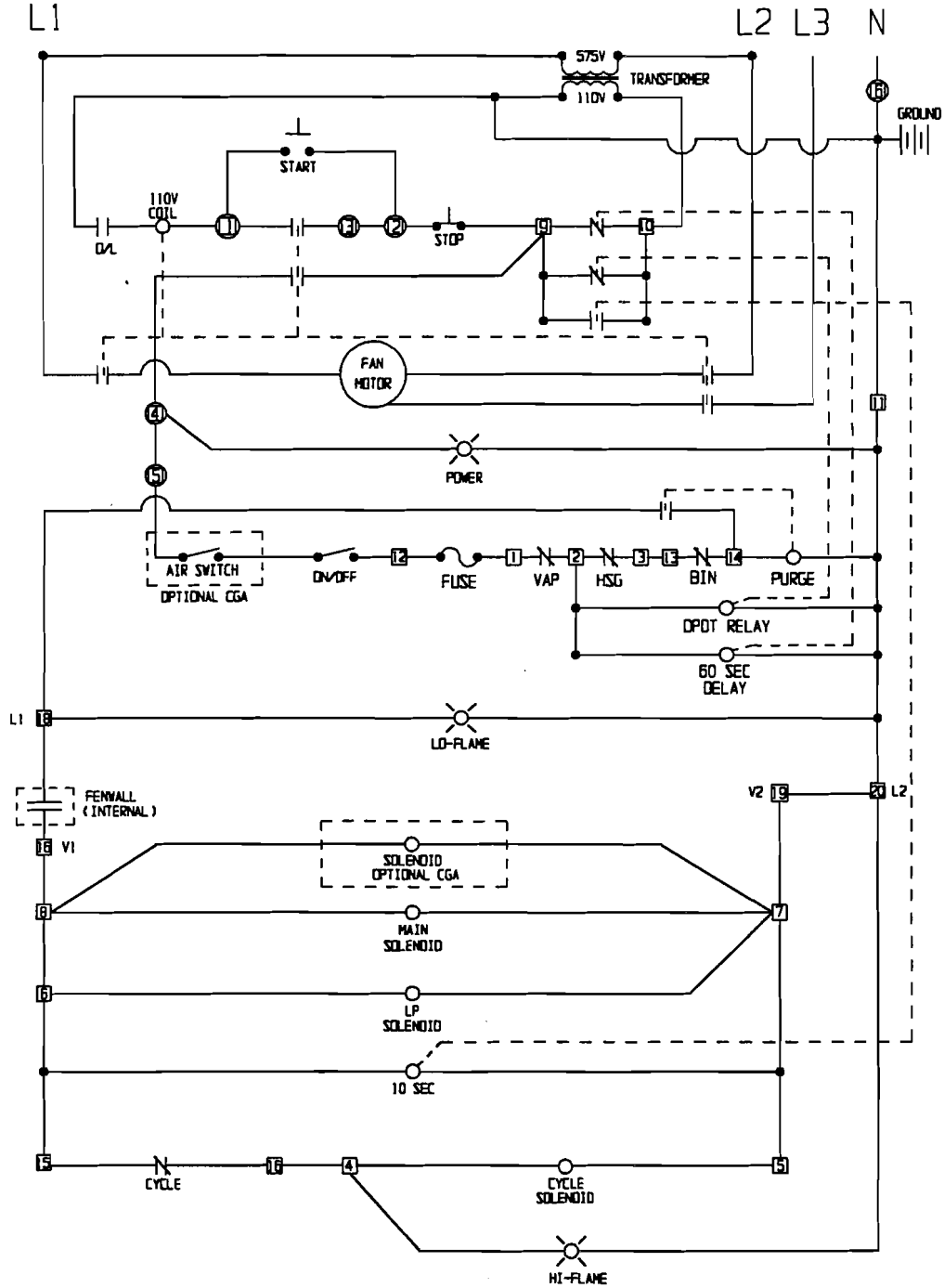


- ① 8 POS TERMINAL STRIP
- ② TF-1241 CONTROL BOARD TERMINAL

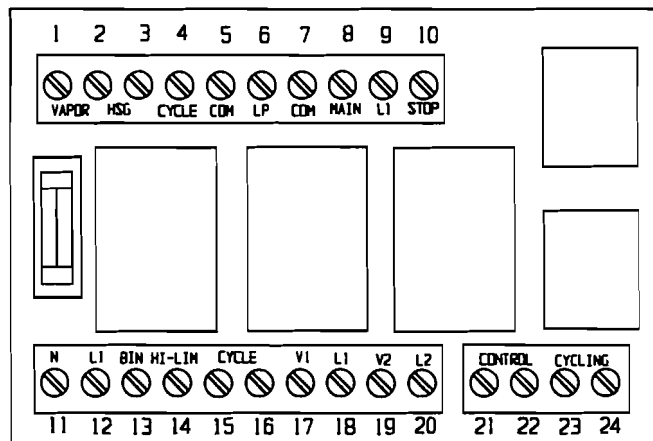


TOP DRY FAN AND HEATER SCHEMATIC

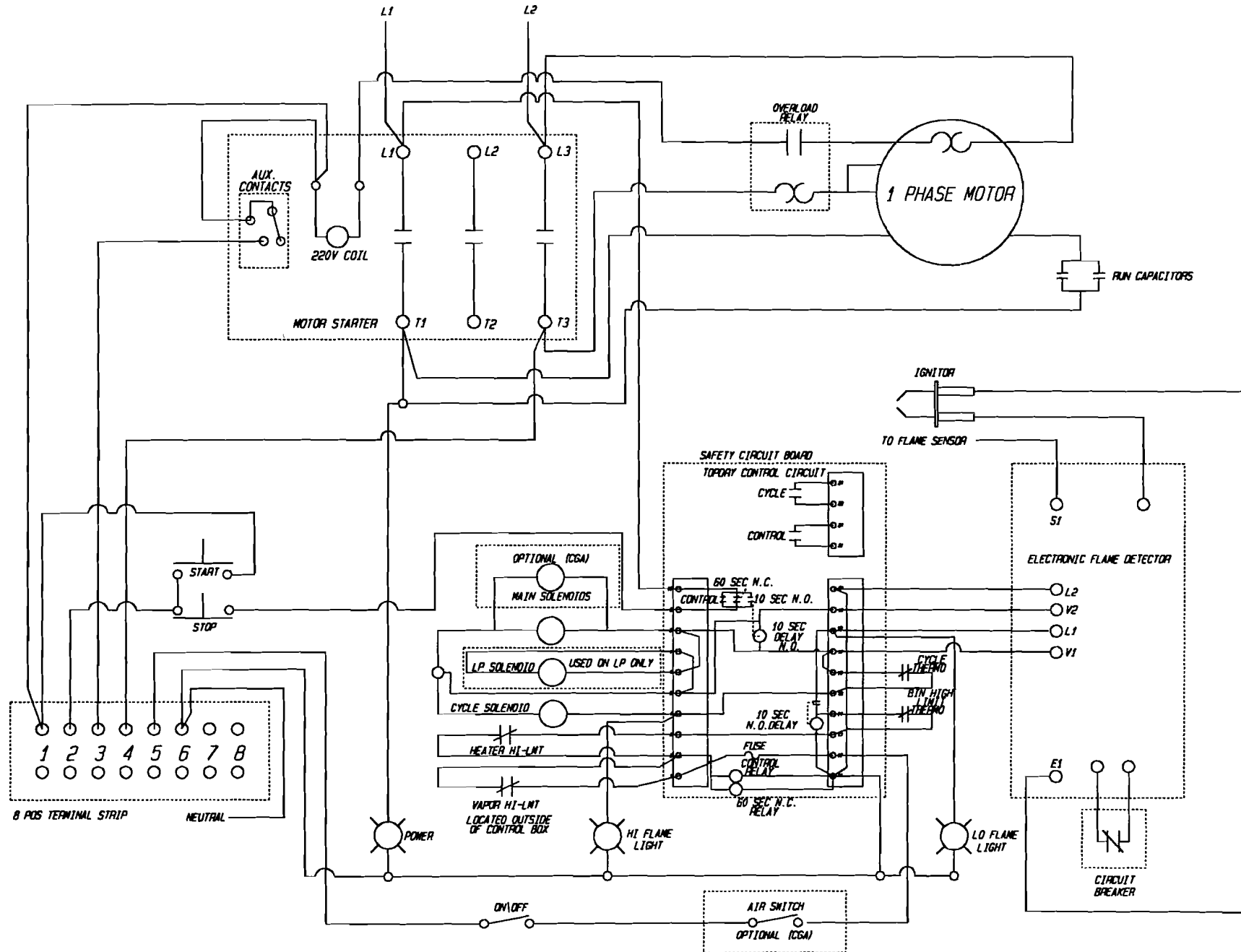
575 VOLT 3 PHASE



- ① 8 POS TERMINAL STRIP
- ② TF-1241 CONTROL BOARD TERMINAL

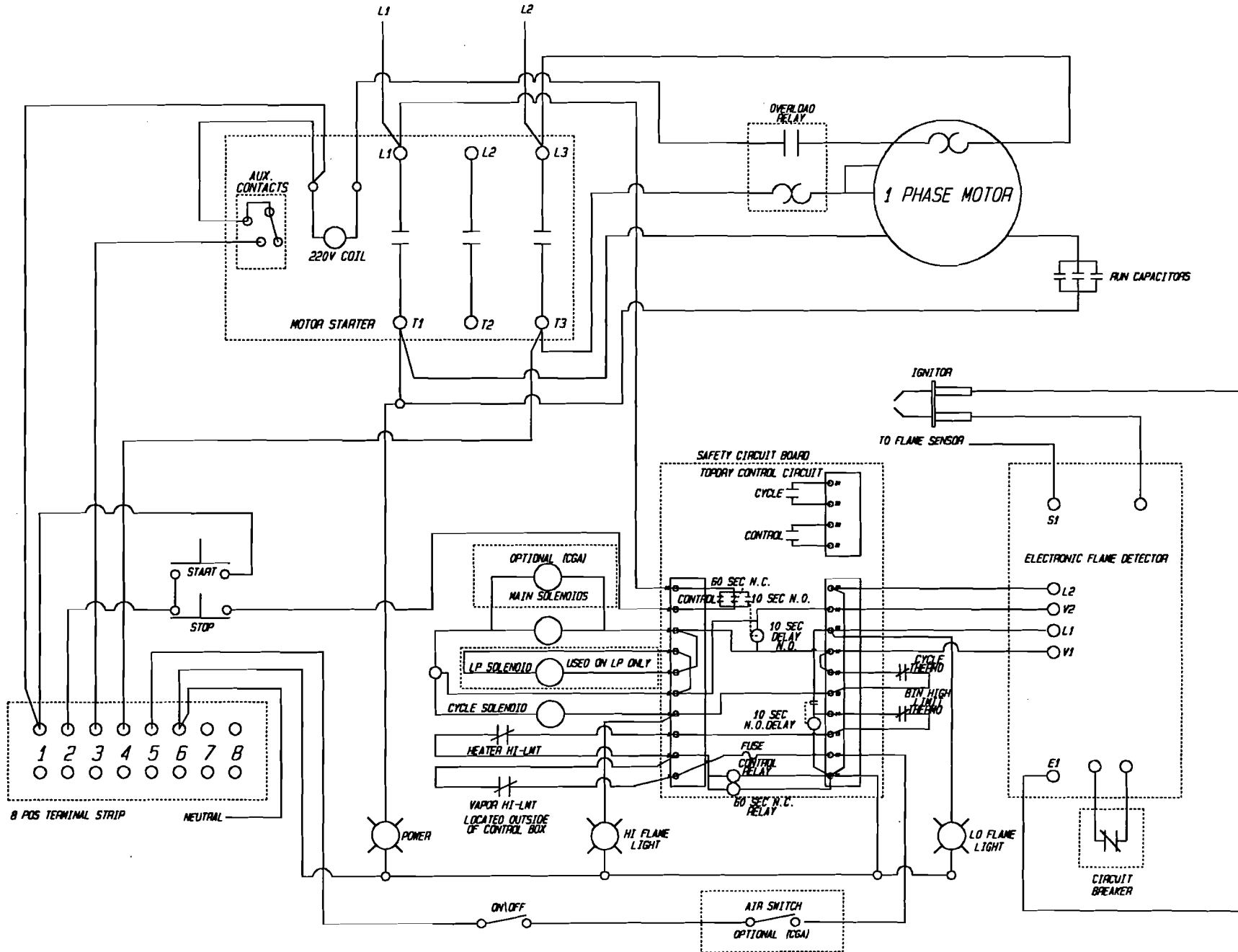


10HP 1PH 24" WIRING DIAGRAM



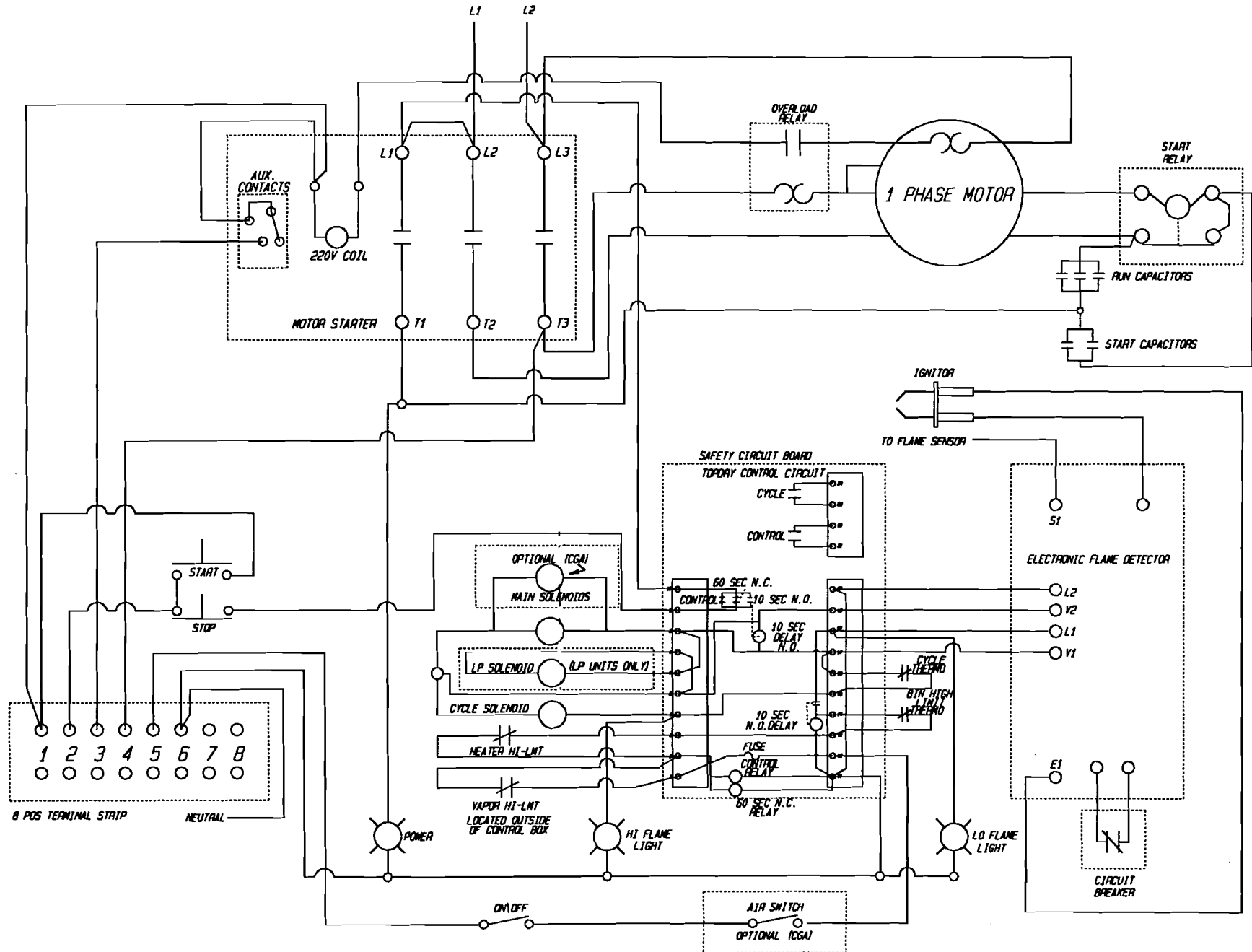
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15HP 1PH 28" WIRING DIAGRAM



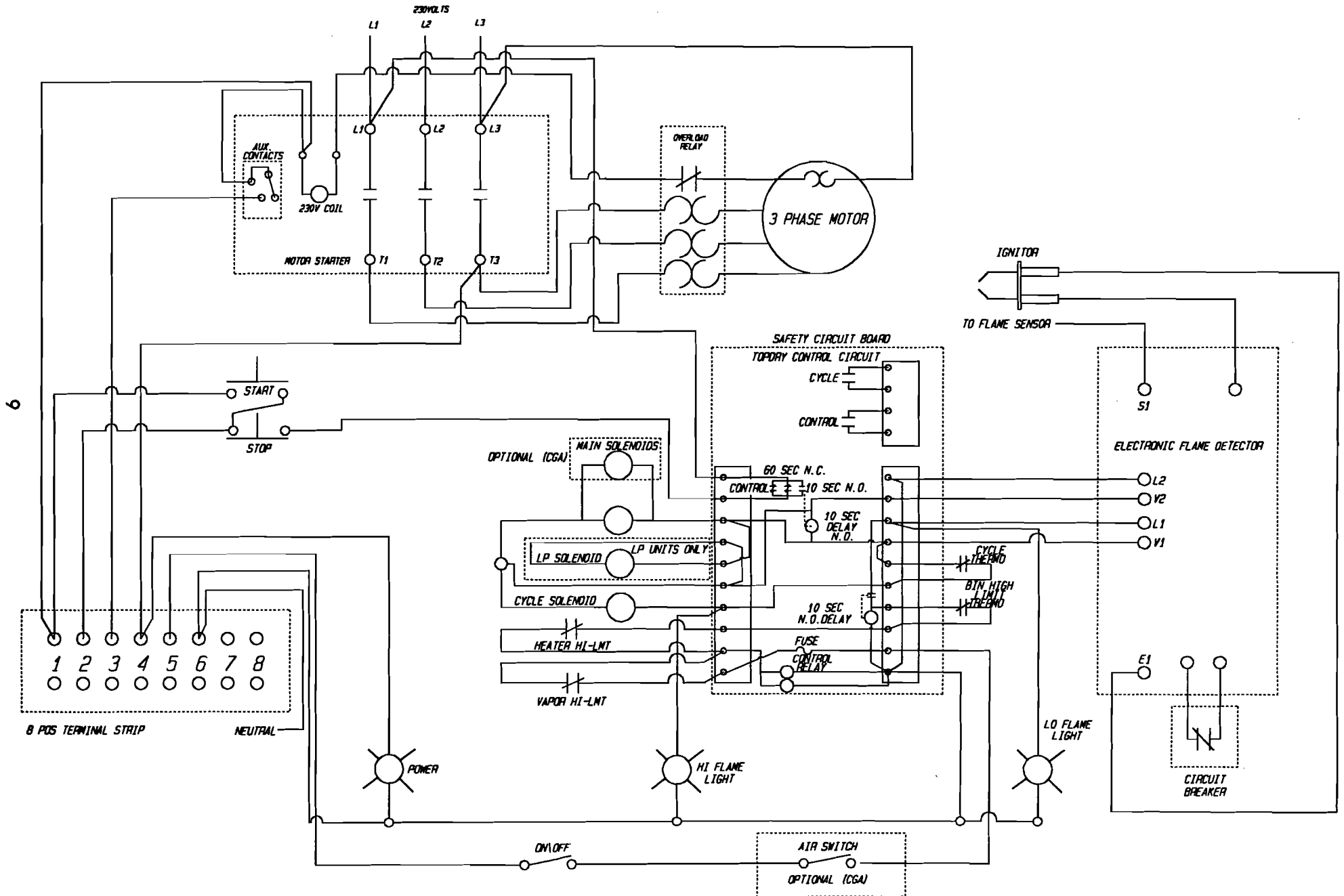
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10-16HP 1PH 36 AND 42" WIRING DIAGRAM

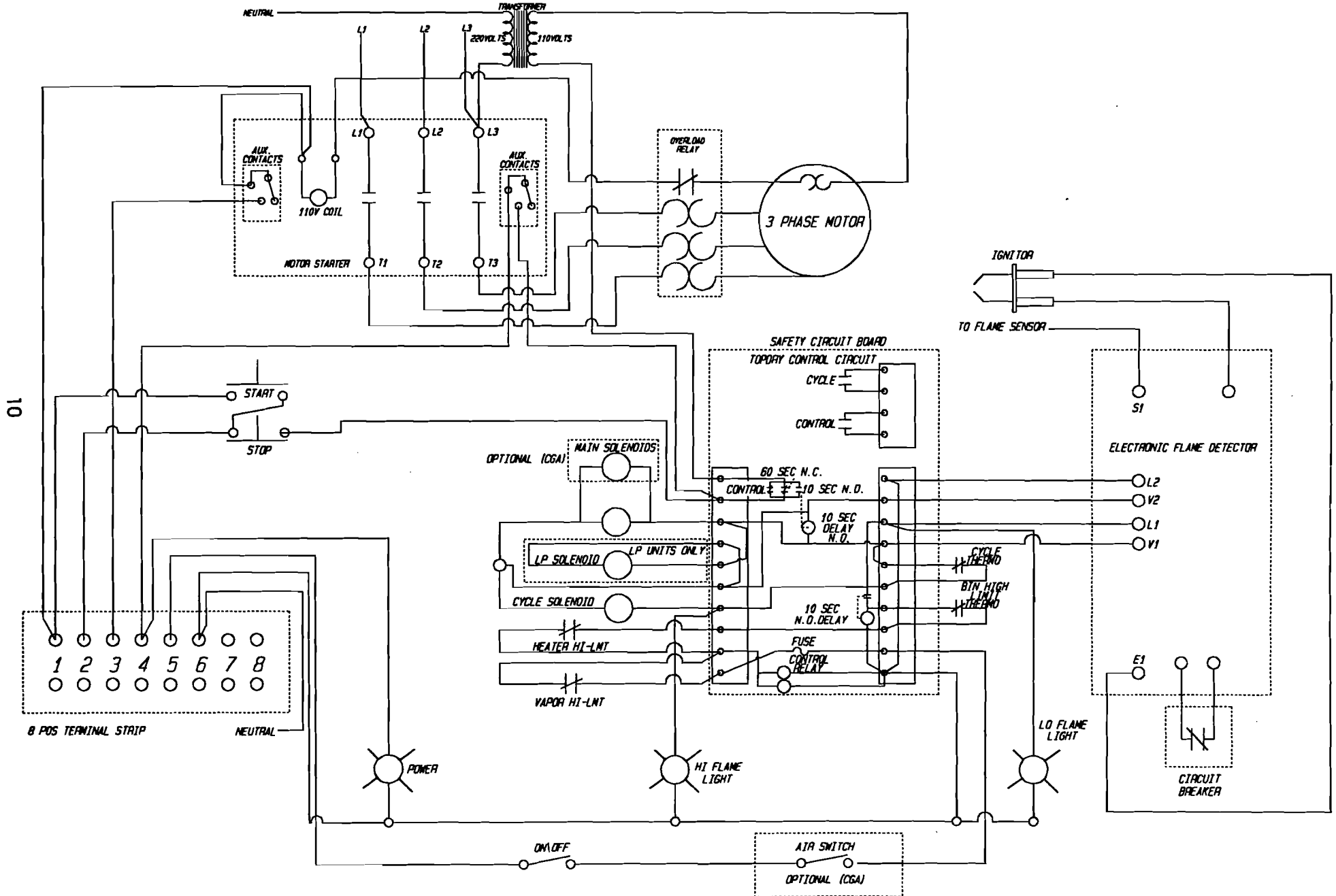


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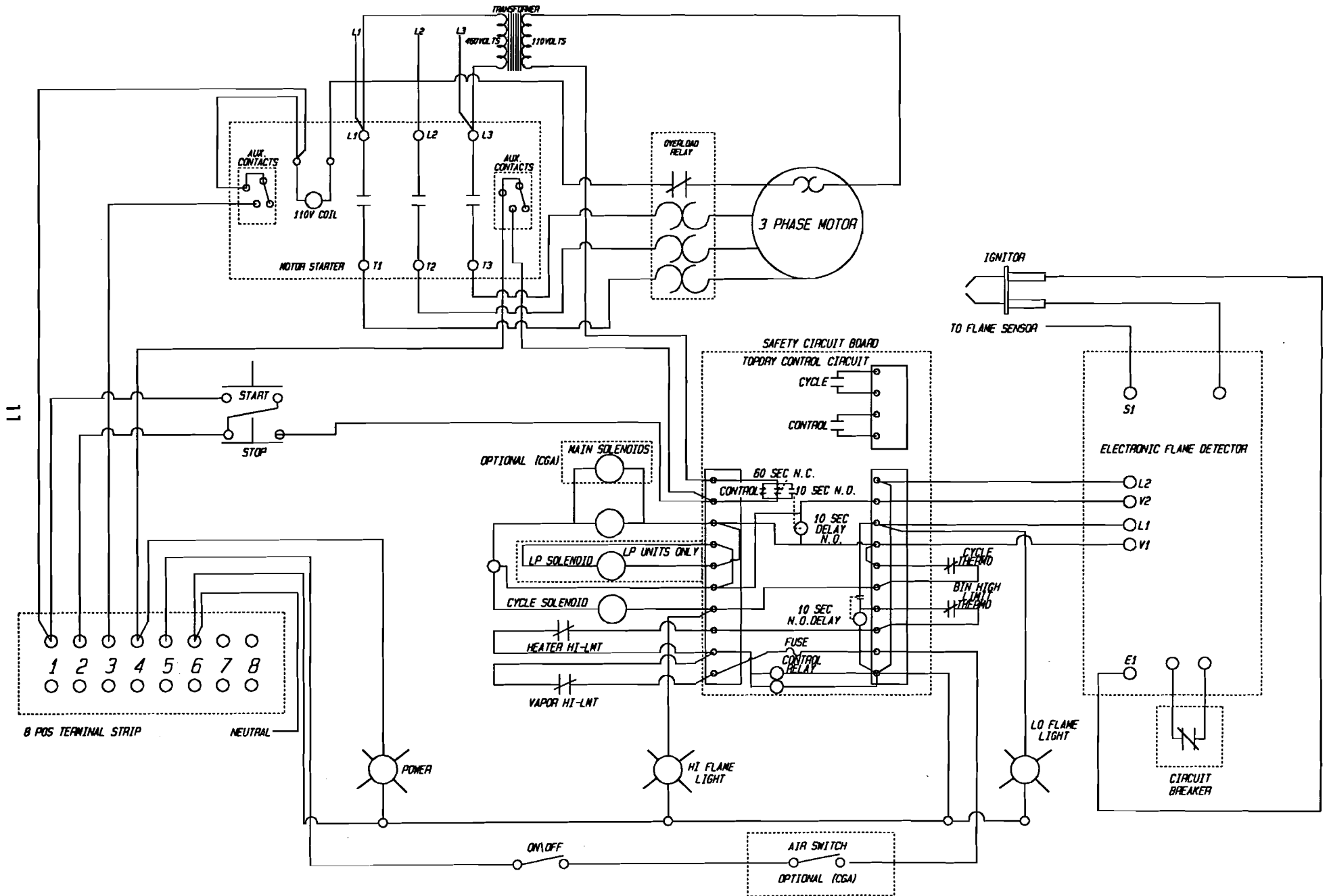
230VOLT 3PH WIRING DIAGRAM



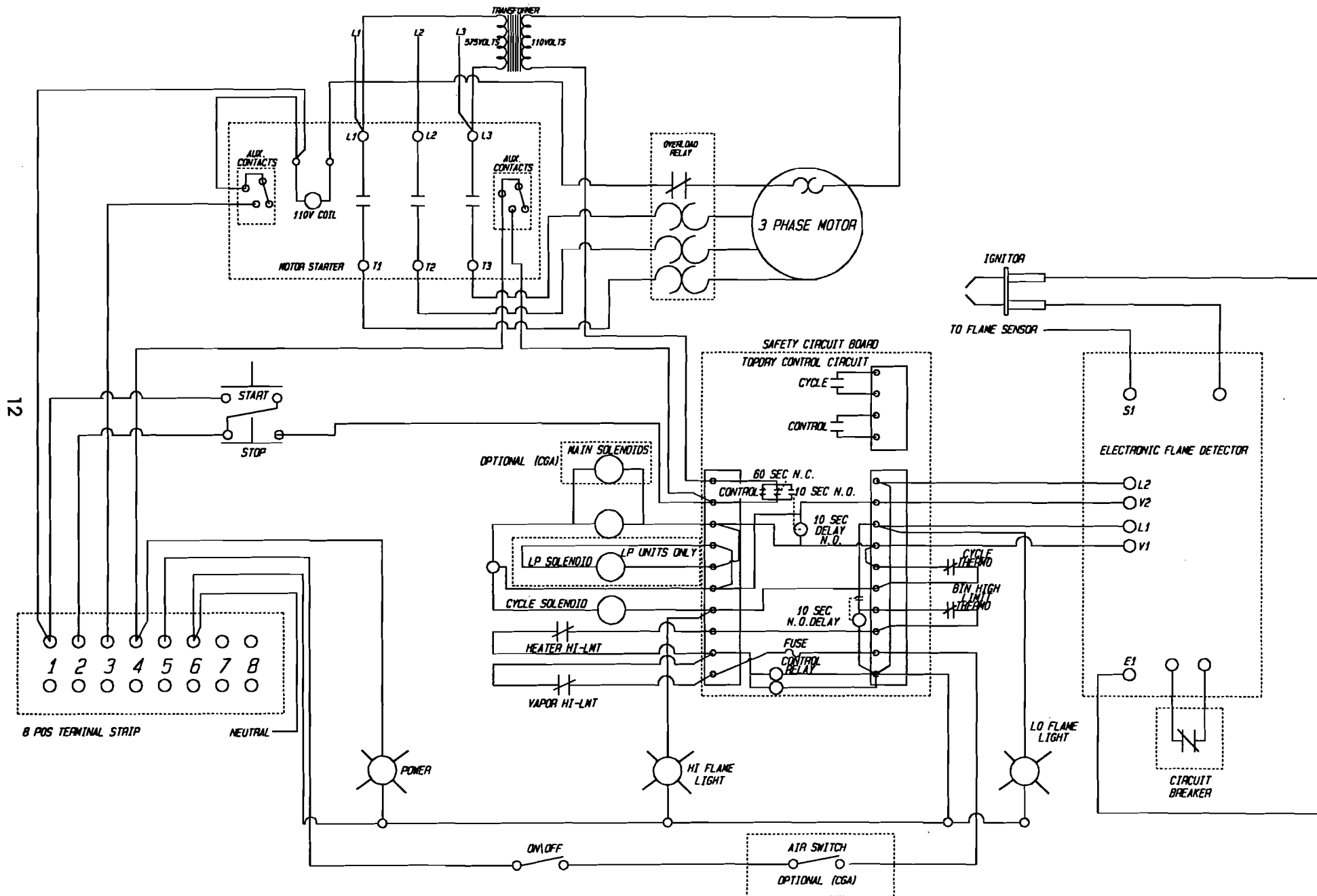
380VOLT 3PH WIRING DIAGRAM



460VOLT 3PH WIRING DIAGRAM

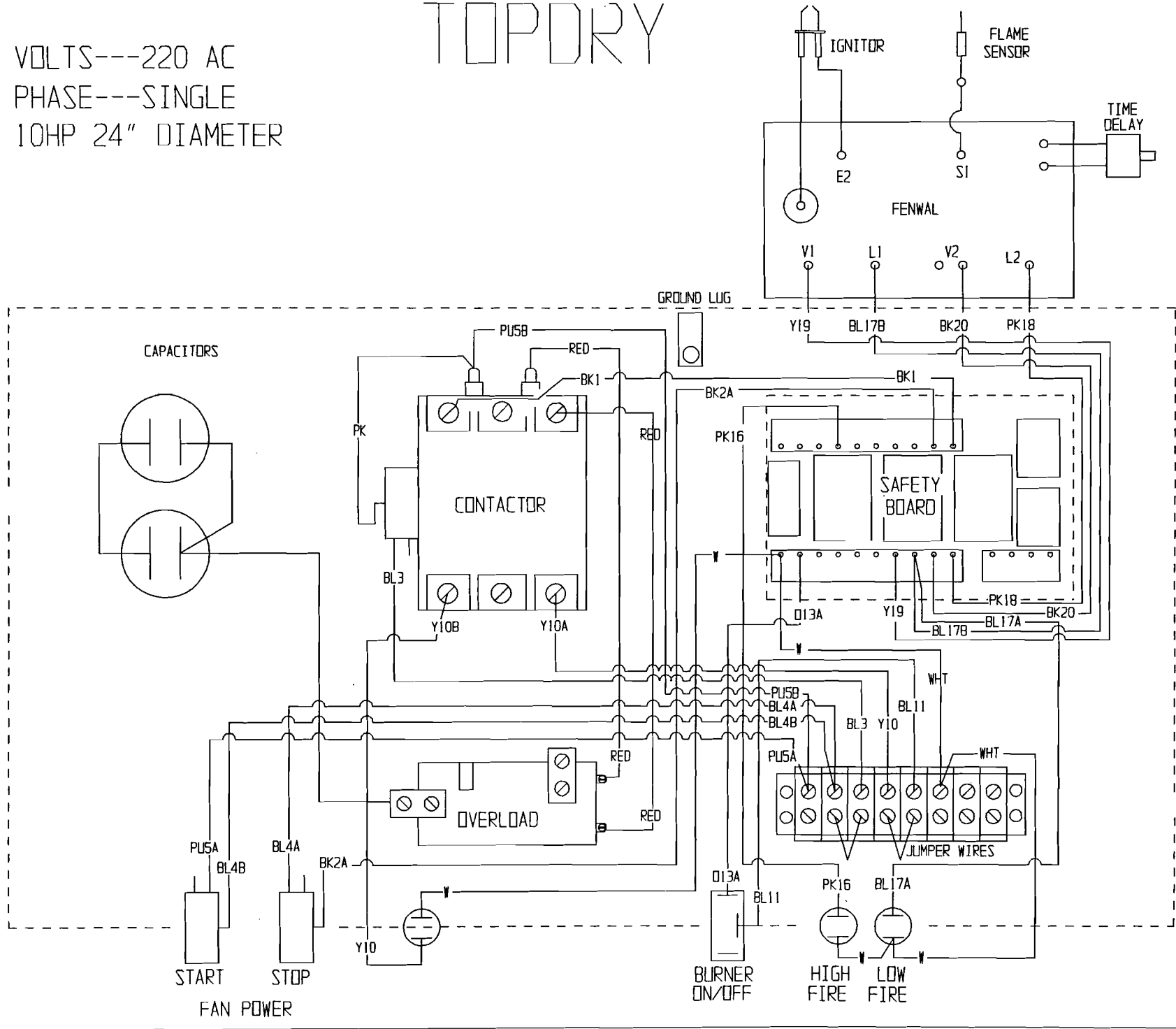


575VOLT 3PH WIRING DIAGRAM



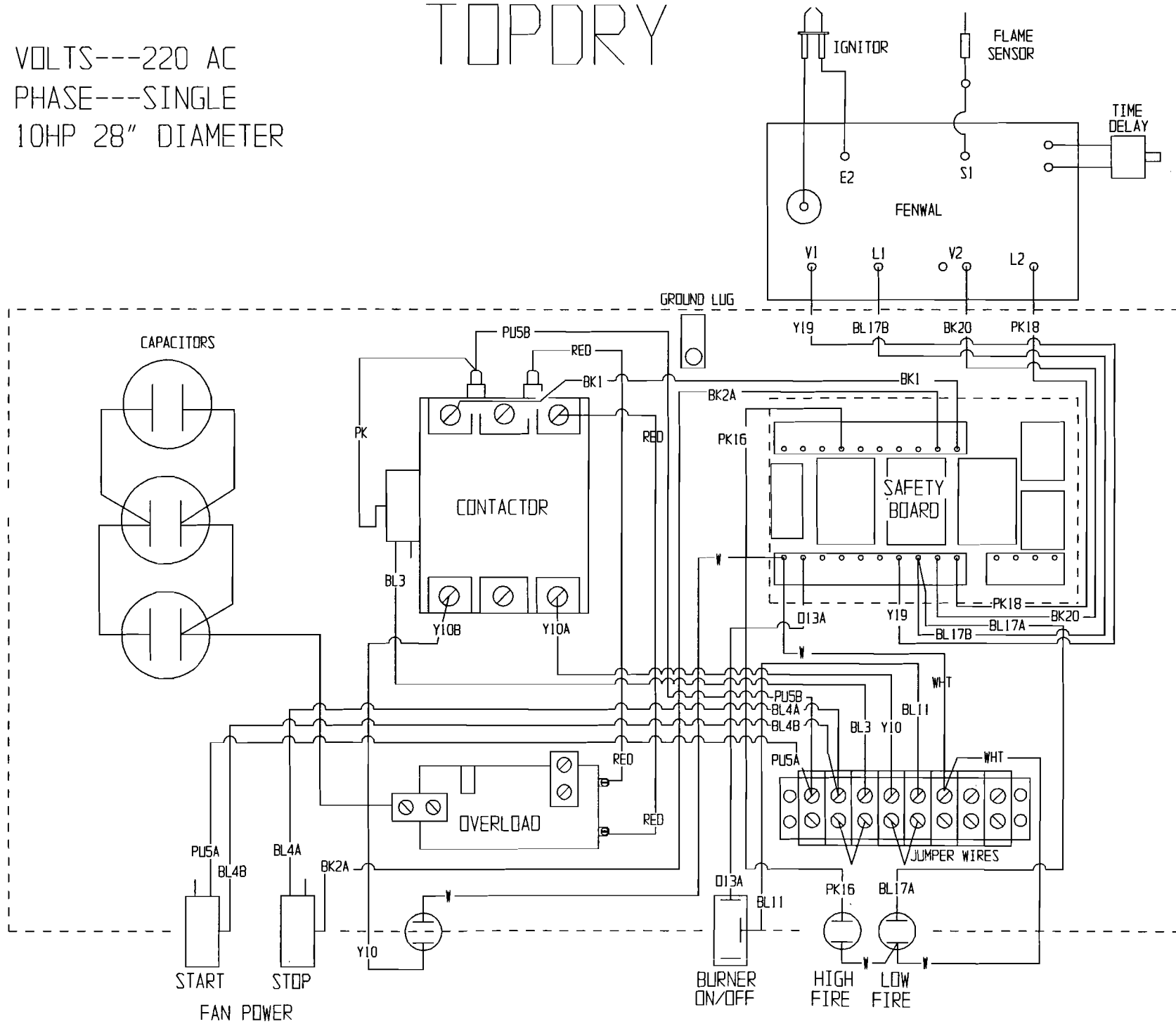
TOPDRY

VOLTS---220 AC
PHASE---SINGLE
10HP 24" DIAMETER



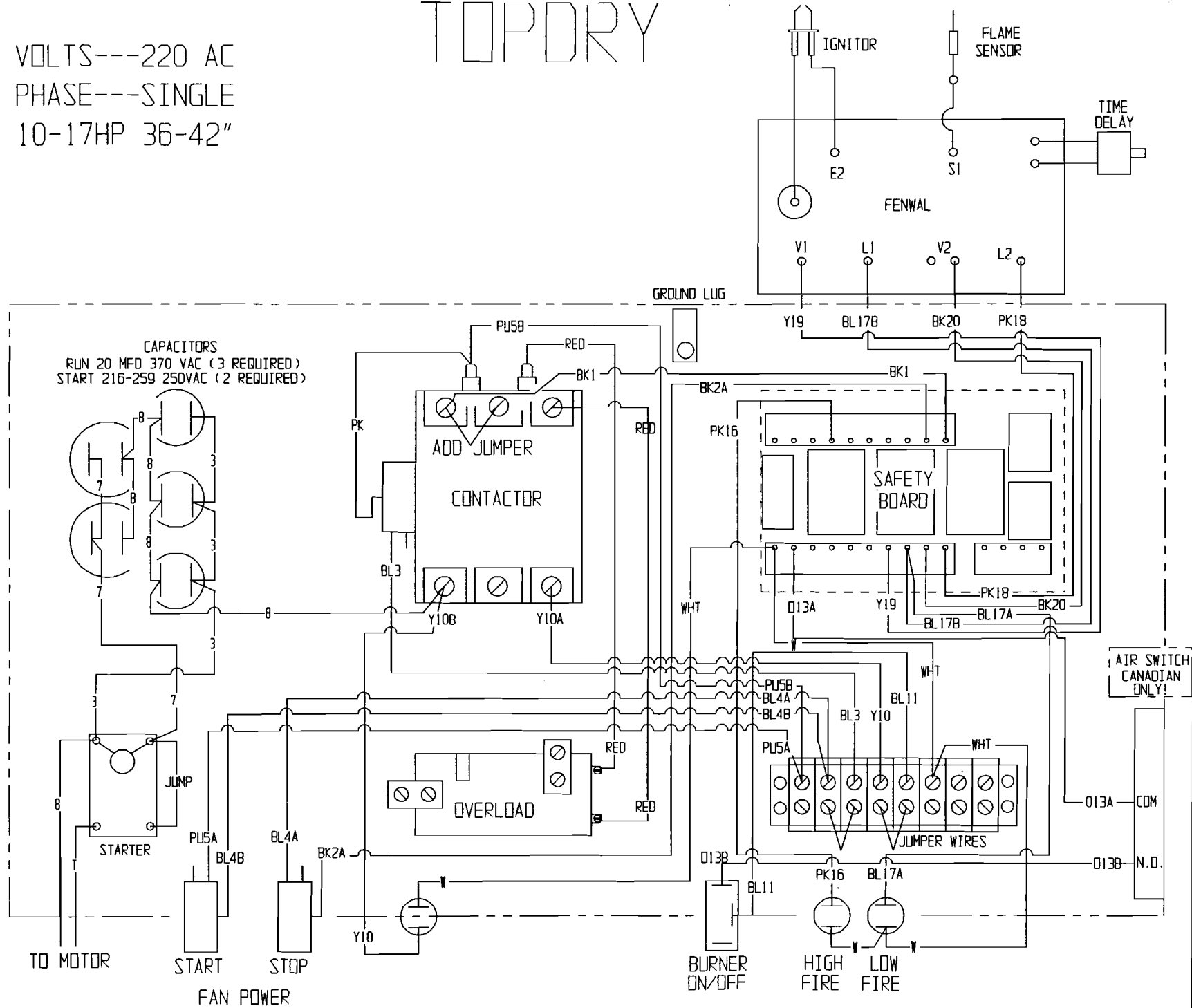
TOPDRY

VOLTS---220 AC
PHASE---SINGLE
10HP 28" DIAMETER



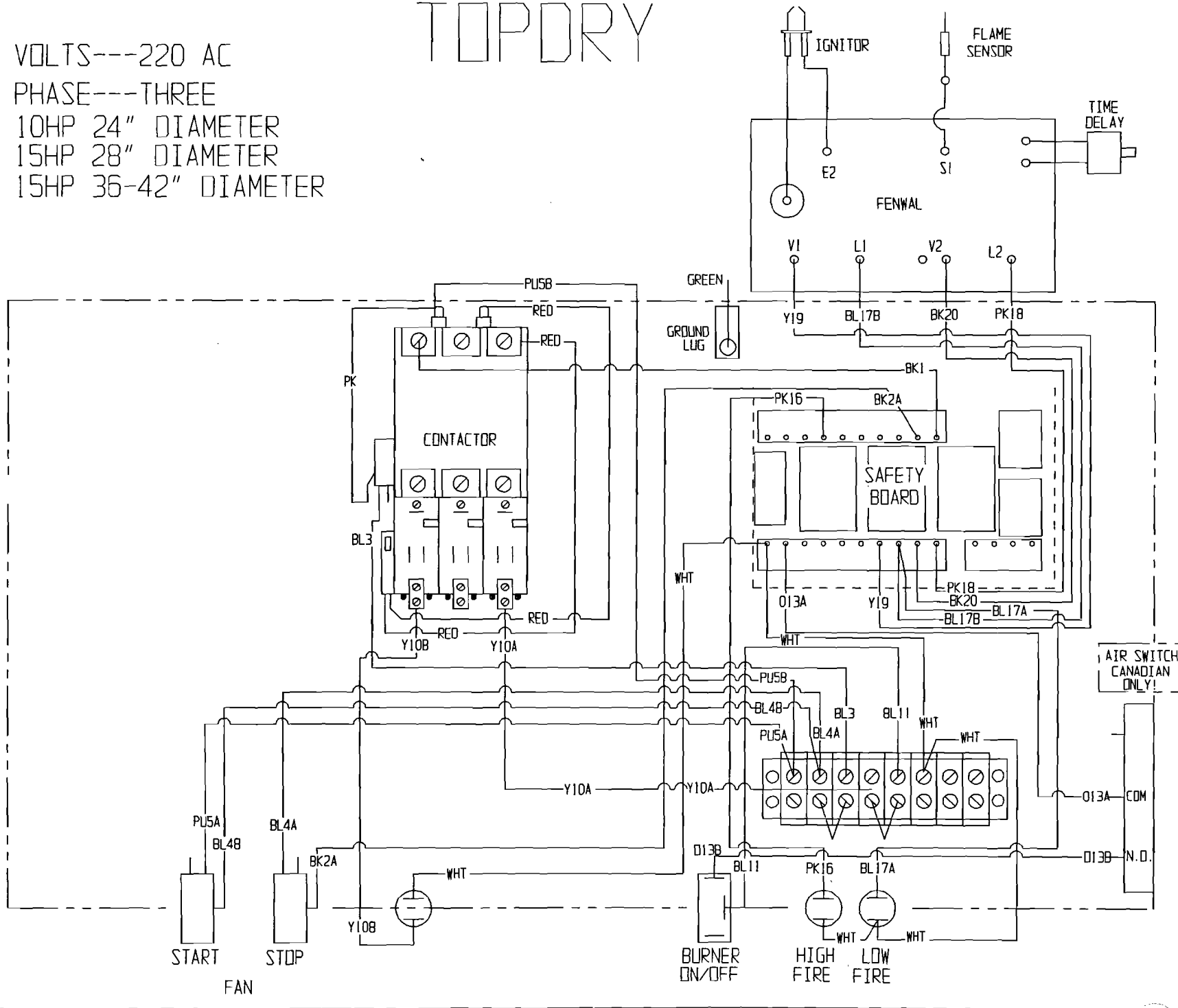
TOPDRY

VOLTS---220 AC
 PHASE---SINGLE
 10-17HP 36-42"



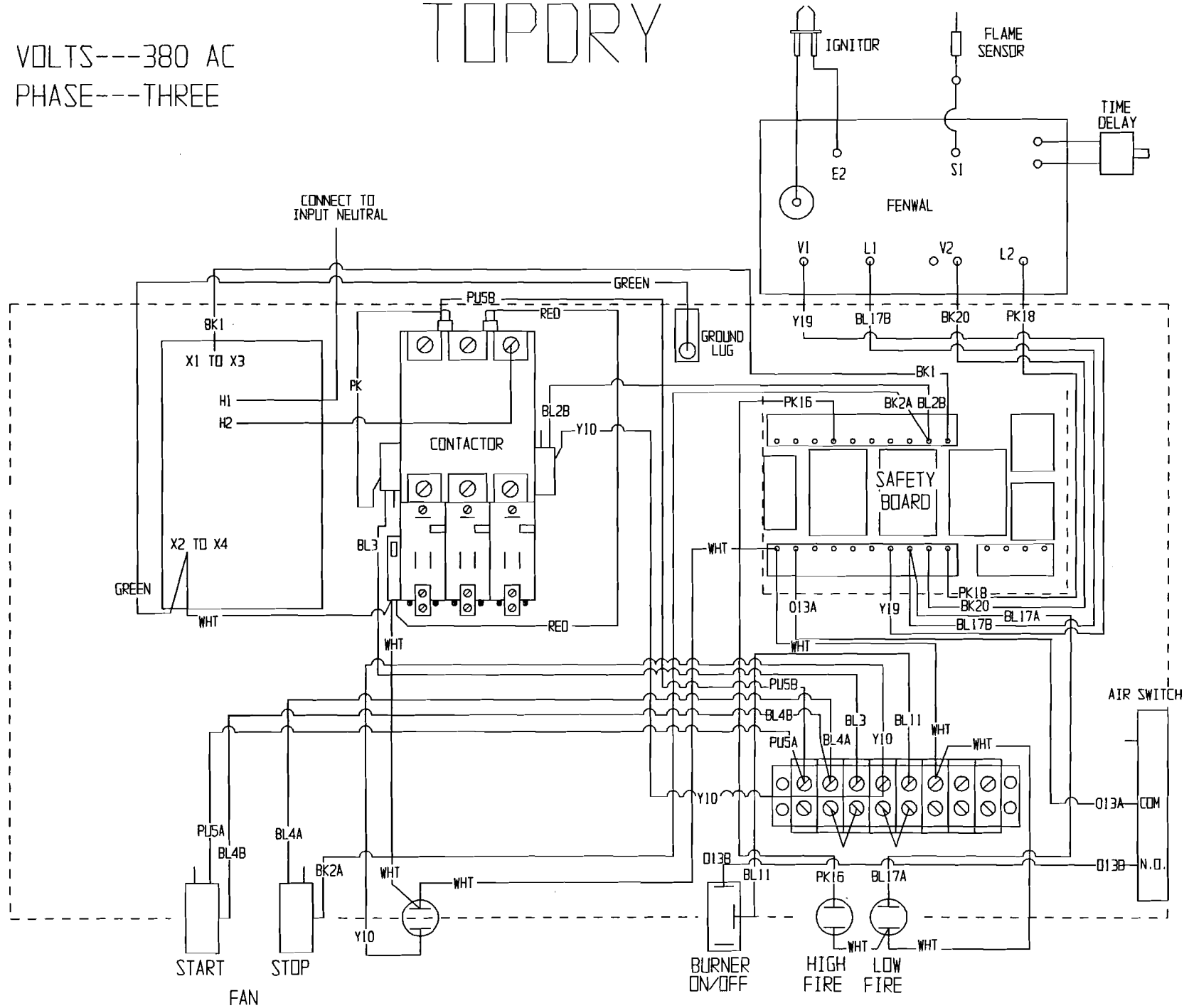
TOPDRY

VOLTS---220 AC
 PHASE---THREE
 10HP 24" DIAMETER
 15HP 28" DIAMETER
 15HP 36-42" DIAMETER



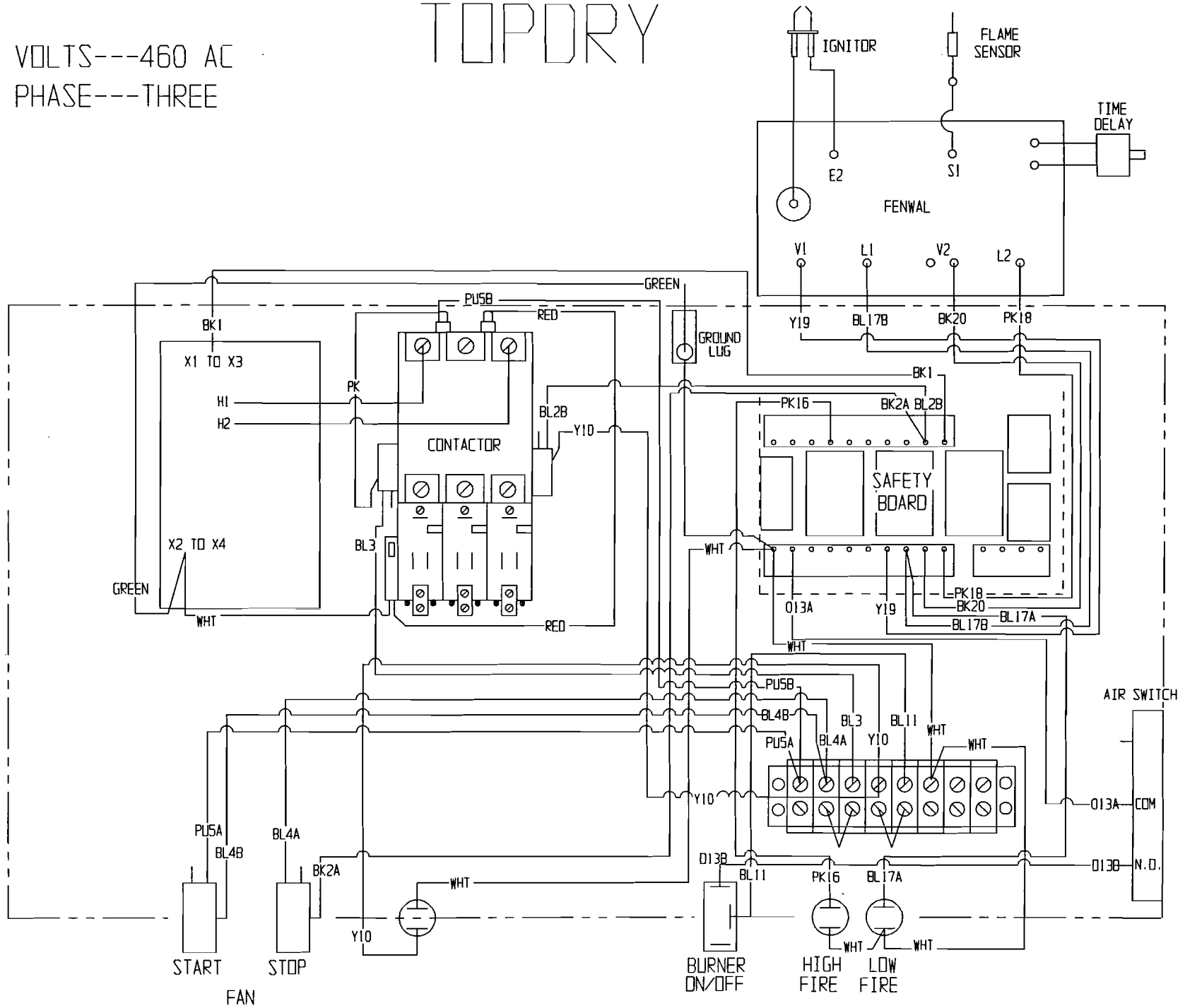
VOLTS---380 AC
PHASE---THREE

TOPDRY



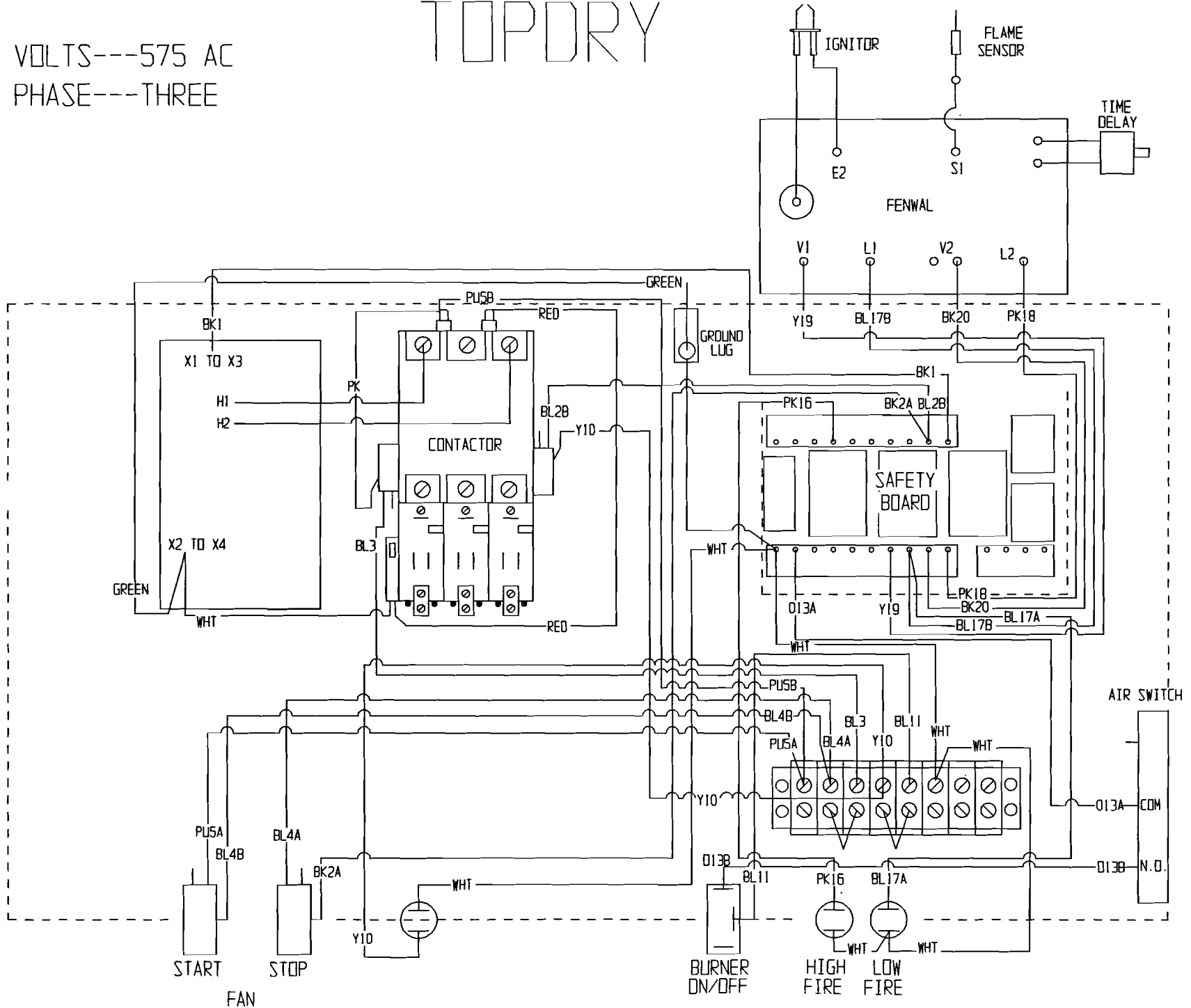
VOLTS---460 AC
PHASE---THREE

TOPDRY



VOLTS---575 AC
PHASE---THREE

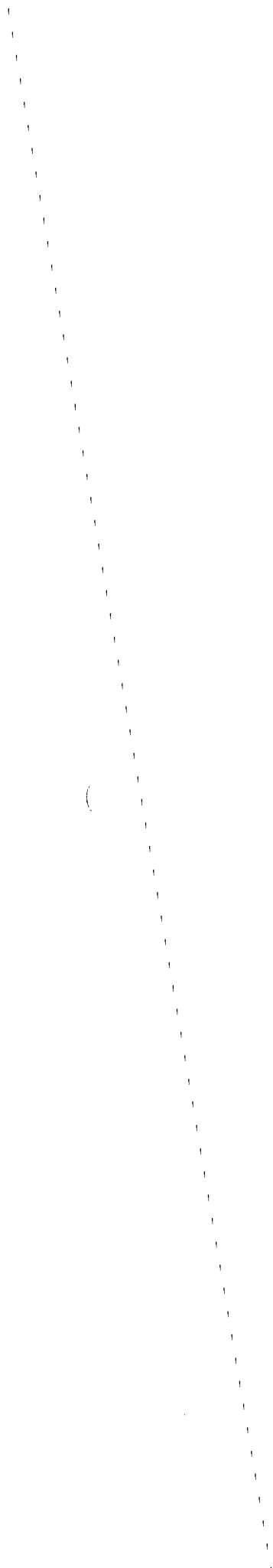
TOPDRY



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1994 TOPDRY

CONTROL CENTER WIRING



MULTIPLE CROP DRYER CONNECTION (220V)

FAN CIRCUIT (220 VOLT)

Fan 1 Connections

1. Run and mark 6 wires between Fan 1 and Control Center.
2. Connect Fan 1 to Control Center Term 1 to Term 1, Term 2 to Term 2, etc.
3. **BE SURE TO CONNECT TERM 6 TO NEUTRAL FOR 110V SUPPLY TO HEATER**
4. Remove jumper wires from terms 2 and 3 and terms 4 and 5 in Fan 1.
5. Run and mark 9 wires between Fan 1 and Fan 2.
6. Remove wire that goes from terminal 9 on Fan 1 to the stop switch.
7. Remove wire that goes from overload contacts in Fan 1 to contactor coil.
8. Connect wire 1 to terminal 9 in Fan 1.
9. Connect wire 2 to stop switch in Fan 1 where previous wire was removed (2).
10. Connect wire 3 to Contactor term T3 in Fan 1.
11. Connect wire 4 to overload contacts in Fan 1 where previous wire was removed.
12. Connect wire 5 to contactor coil in Fan 1 where previous wire was removed.

Fan 2 connections

1. Run and mark 2 wires from Fan 2 to Control Center.
2. **BE SURE TO CONNECT TERM 6 TO NEUTRAL FOR 110V SUPPLY TO HEATER**
3. Remove wire that runs from terminal 9 to stop switch in Fan 2.
4. Remove wire that runs from terminal 10 to Contactor term L1 in Fan 2.
5. Remove wire that goes from overload contacts in Fan 2 to contactor coil.
6. Remove wire that goes from Contactor term L3 in Fan 2 to overload contacts.
7. Connect wire 1 to terminal 10 on Fan 2.
8. Connect wire 2 to terminal 9 on Fan 2.
9. Connect wire 3 to contactor coil where previous wire was removed (3).
10. Connect wire 4 to overload contacts in Fan 2 where previous wire was removed (3).
11. Connect wire 5 to overload contacts in Fan 2 where previous wire was removed (4).
12. Remove wire that runs from Stop Switch on Fan 2 to Term 2 on 8 Terminal Strip.
13. Connect wire 10 to Term 1 on 8 Terminal Strip.
14. Connect wire 11 to Stop Switch on Fan 2 where wire was previously removed (10).
15. Connect wire from Term 2 on 8 Terminal Strip to Stop Switch where wire was previously removed (2).

HEATER CONTROL CIRCUIT

Heater 1 connections

1. Connect wire 6 to terminal 21 on Fan 1.
2. Connect wire 7 to terminal 22 on Fan 1.
3. Connect wire 8 to terminal 23 on Fan 1.
4. Connect wire 9 to terminal 24 on Fan 1.

Heater 2 Connections

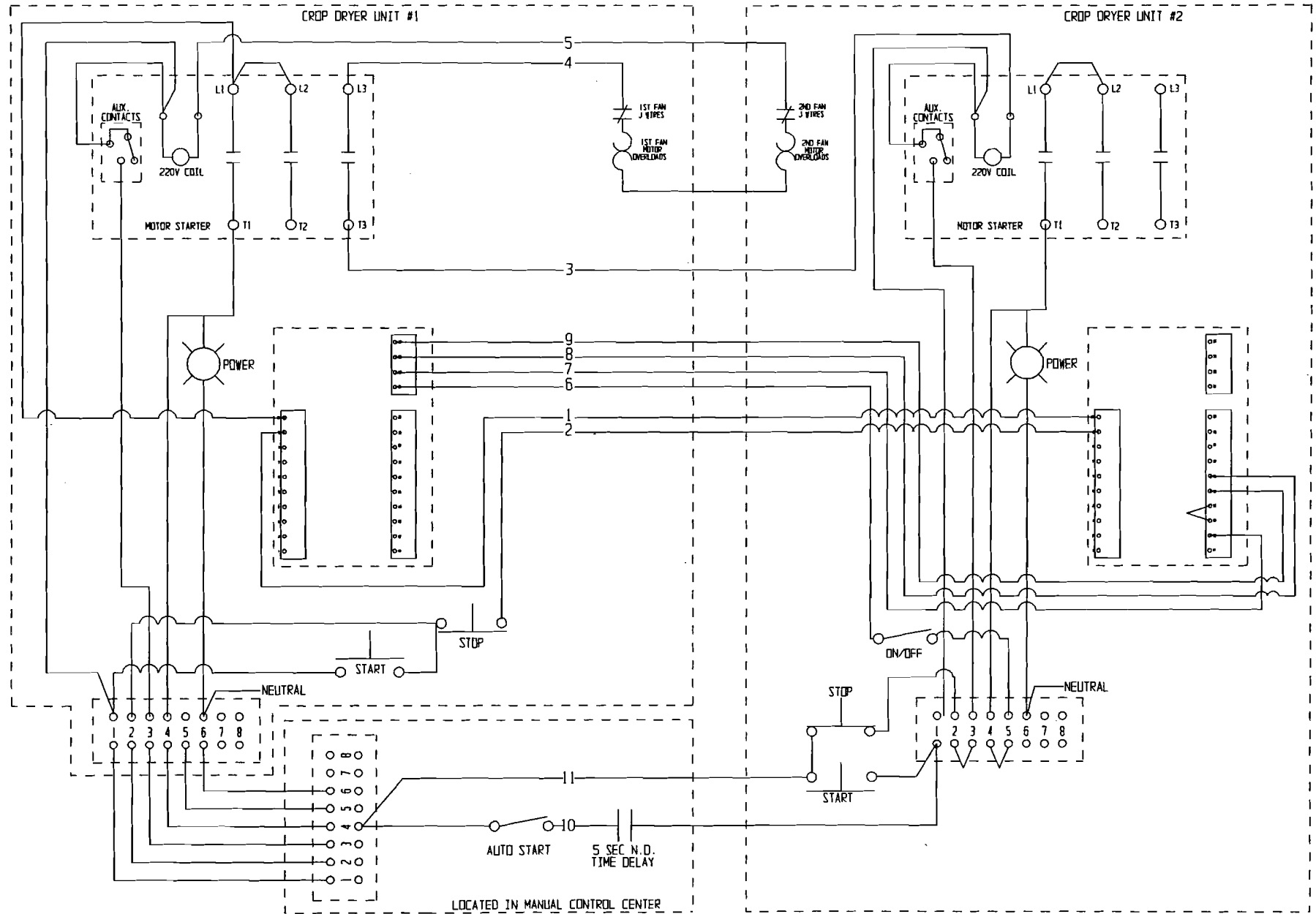
1. Remove wire that goes between on/off toggle switch and terminal 12 on Fan 2.
2. Connect terminals 13 and 14 with a jumper wire.
3. Connect wire 6 to on/off toggle switch where wire was removed previously (1).
4. Connect wire 7 to terminal 12 on Fan 2 where wire was removed previously (1).
5. Connect wire 8 to terminal 15 on Fan 2.
6. Connect wire 9 to terminal 16 on Fan 2.

Control Center Connections

1. Install toggle switch for auto-start in Control Center Sub-panel.
2. Install 220 Volt 5 Second Delay on Control Center back panel.
3. Run wire from Term 4 on 8 Terminal Strip to toggle switch.
4. Run wire from other side of toggle switch to 5 Second Delay.
5. Connect wire 10 to other side of 5 Second Delay.
6. Connect wire 11 to Term 4 on 8 Terminal Strip.

MULTIPLE CROP DRYER CONTROL WIRING DIAGRAM

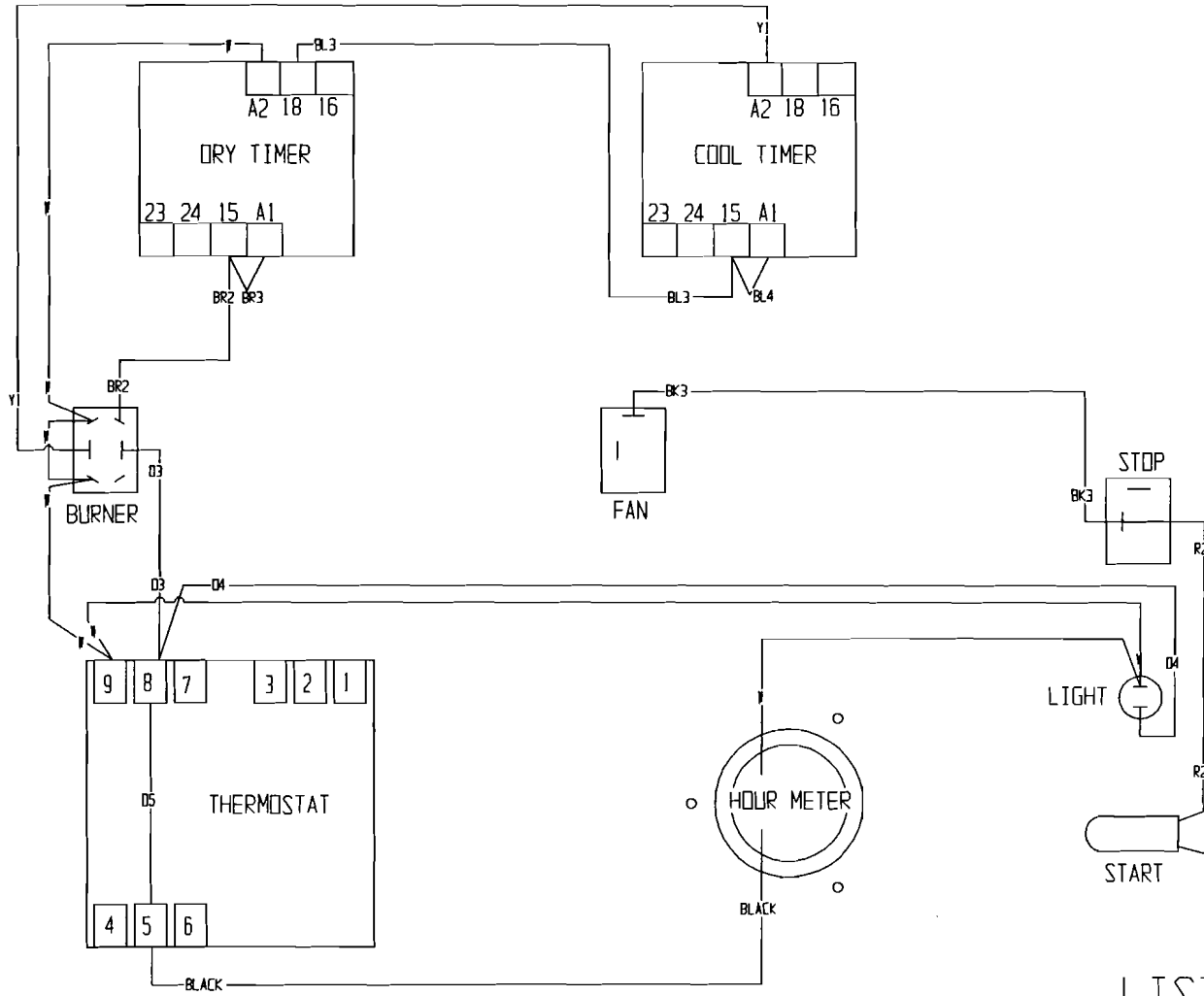
USE MULTIPLE CROP DRYER
CONTROL KIT NUMBER TF-1249



LOCATED IN MANUAL CONTROL CENTER

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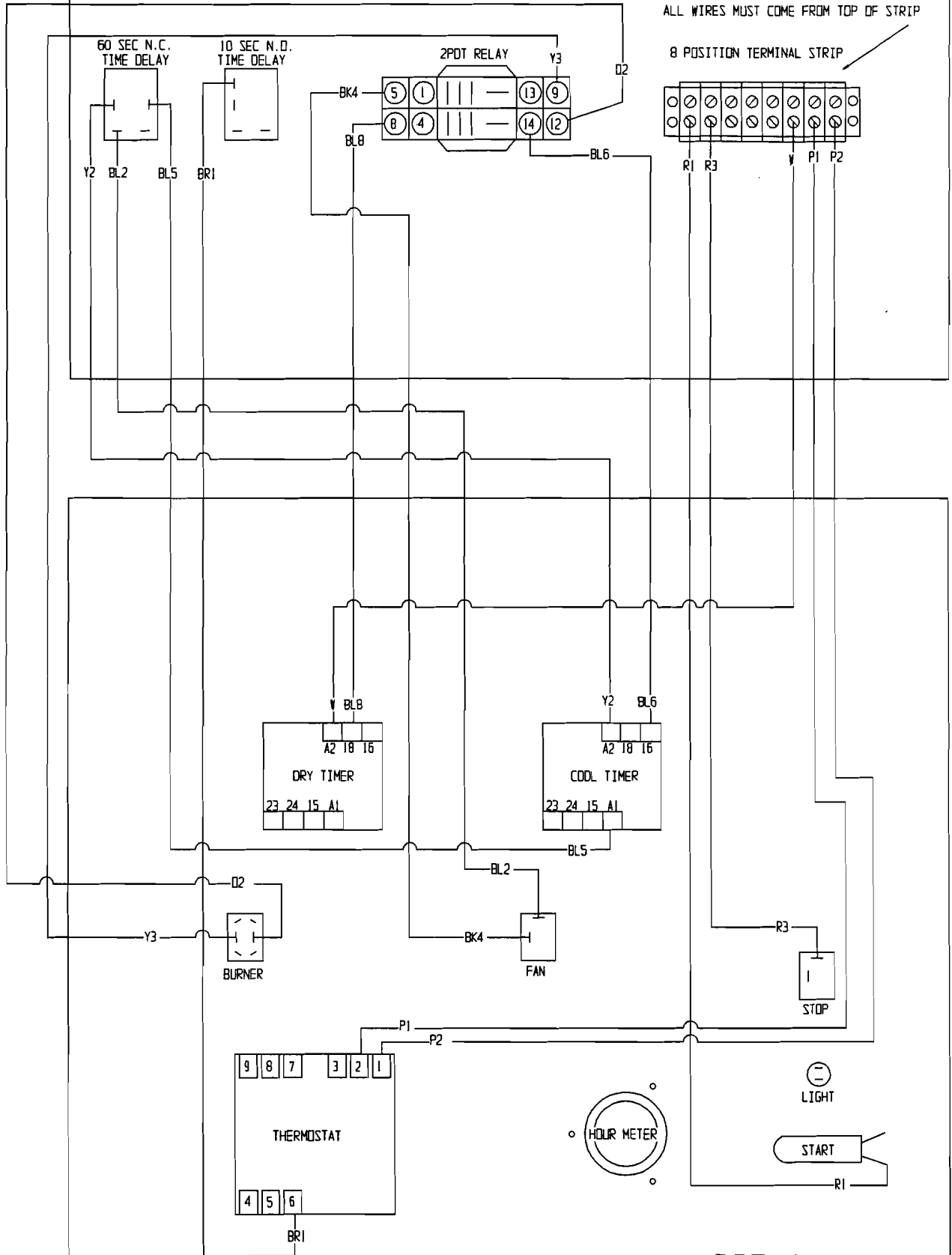
TOPDRY MANUAL CONTROL CENTER FRONT PANEL INTERIOR WIRING



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LIST A

TOPDRY MANUAL CONTROL CENTER EXTERNAL WIRING

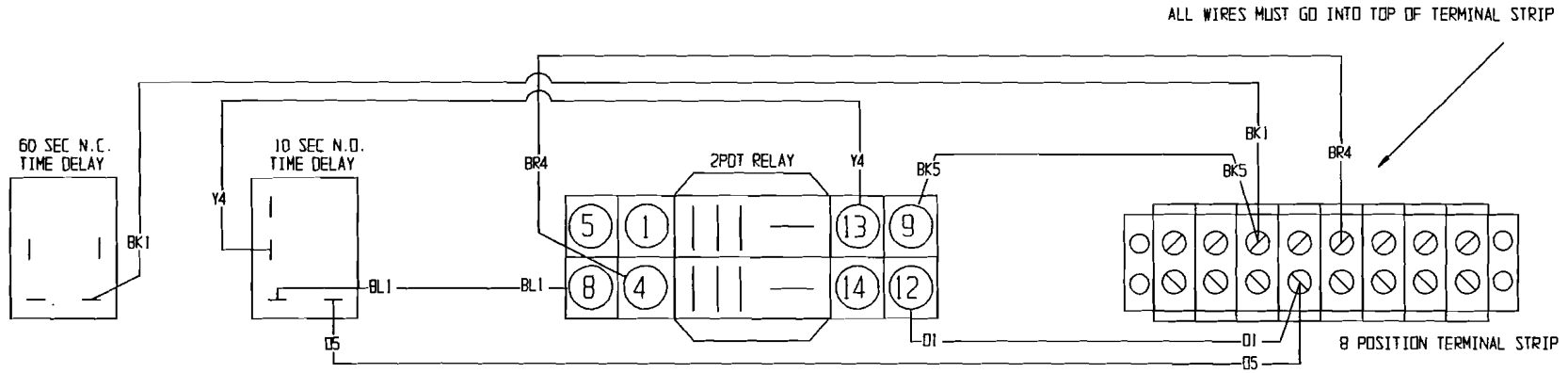


RHODES

LIST A

MARCH 93

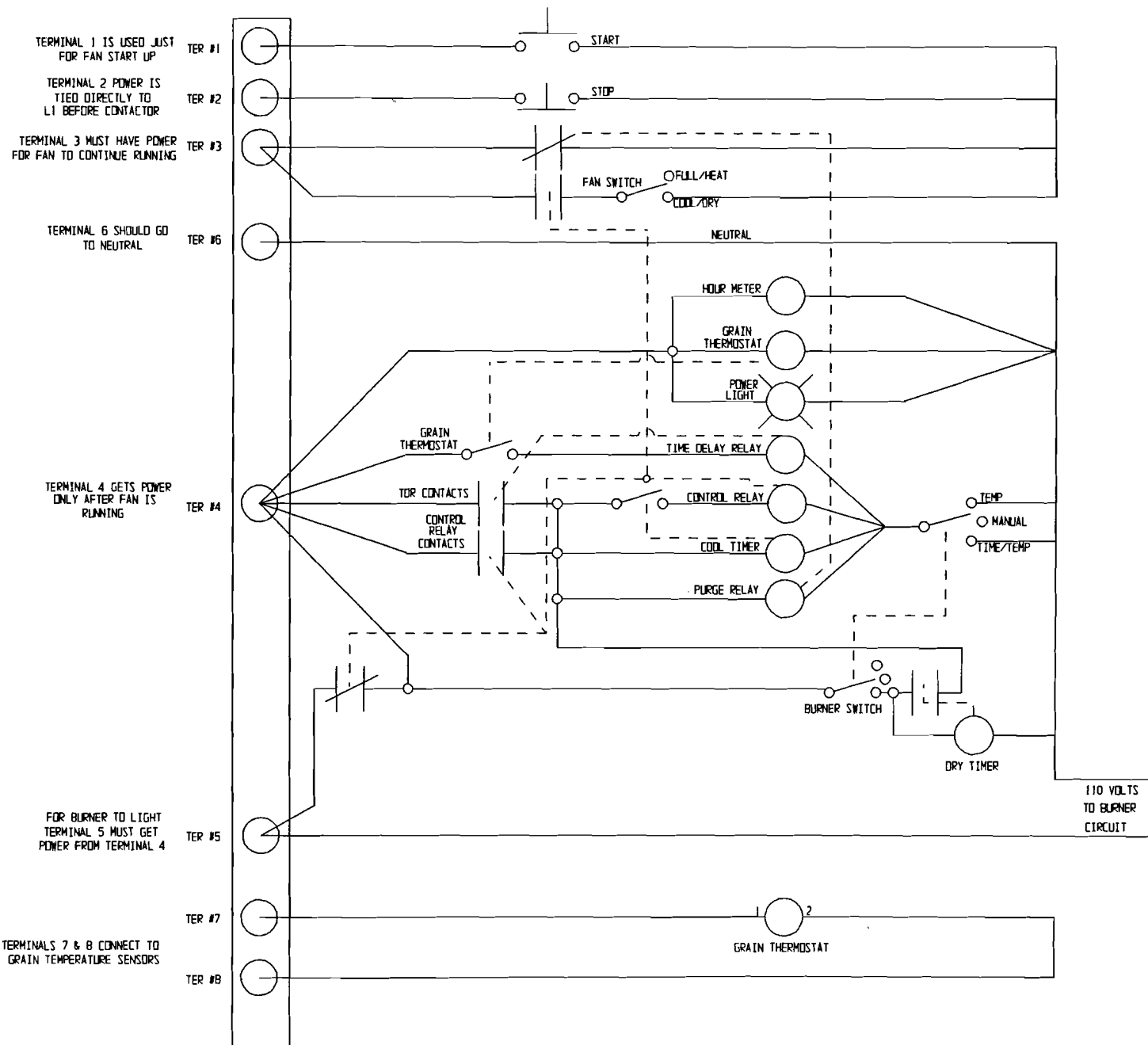
TOPDRY MANUAL CONTROL CENTER BACK PANEL INTERIOR WIRING



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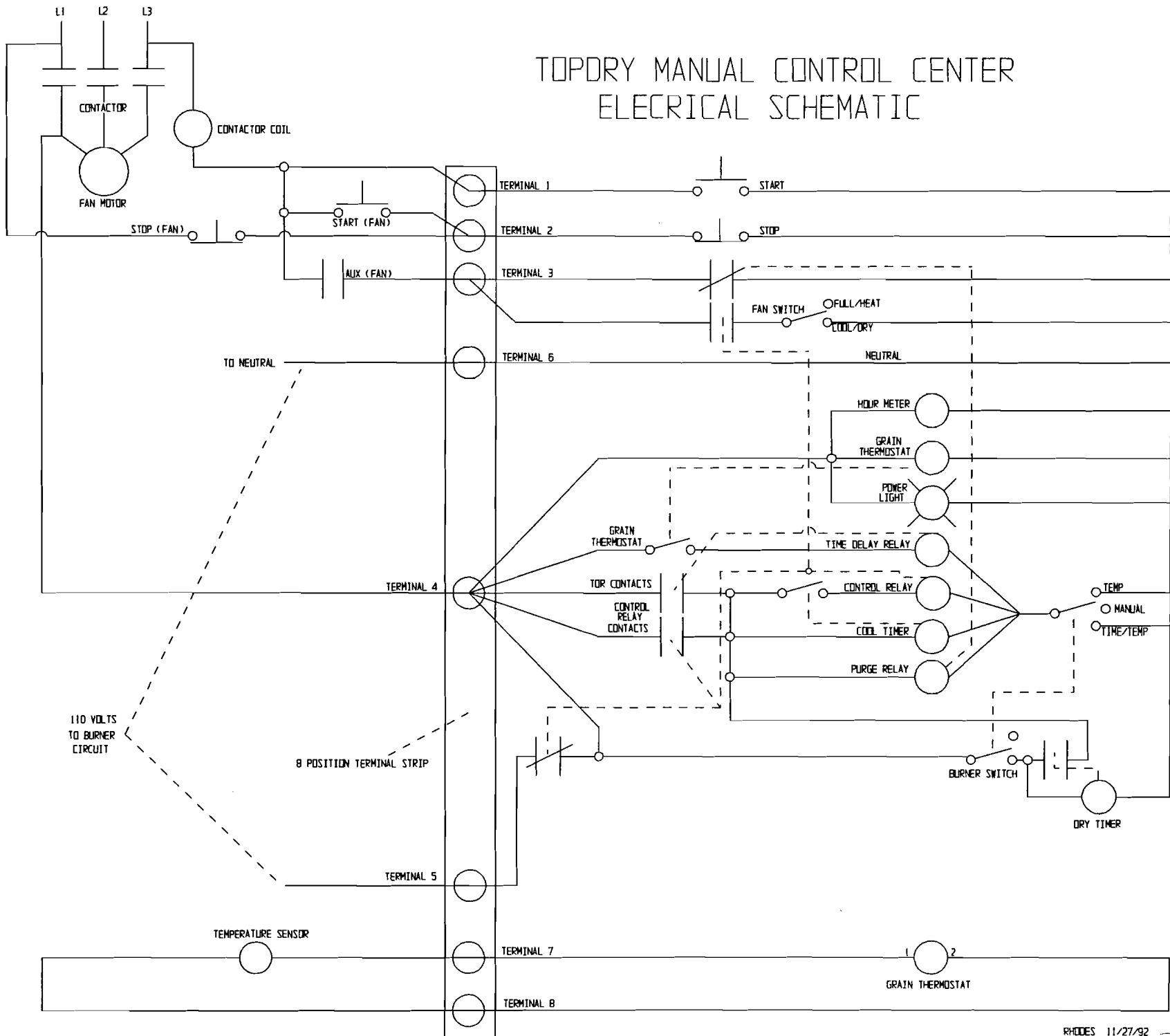
LIST A

TOPDRY MANUAL CONTROL CENTER ELECTRICAL SCHEMATIC



1. FOR THE FAN TO START THERE MUST BE POWER ON TERMINAL NUMBER 2
- 2 FOR THE BURNER TO LIGHT THERE MUST BE POWER ON TERMINAL NUMBER 4

TOPDRY MANUAL CONTROL CENTER ELECTRICAL SCHEMATIC



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PRE-1989 TOPDRY

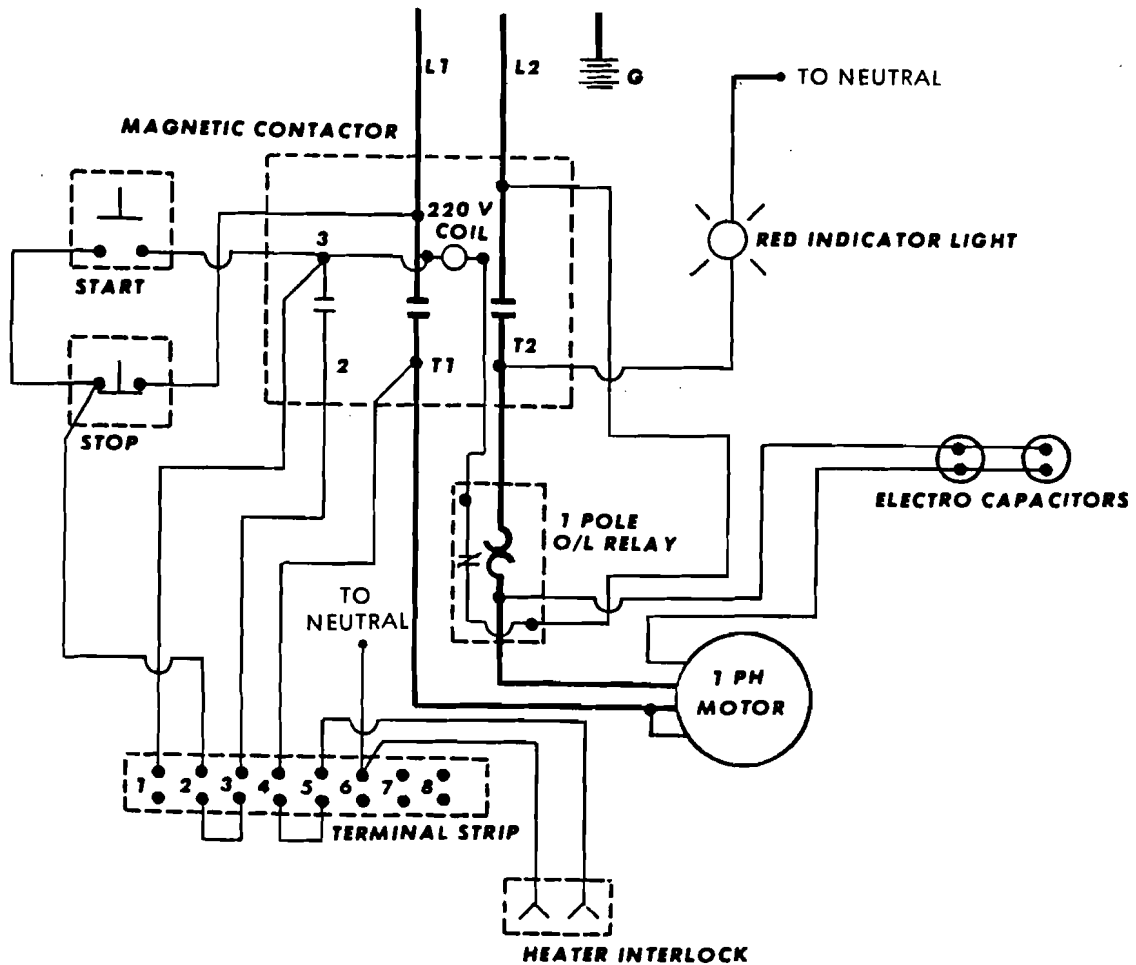
FANS, HEATERS AND CONTROLS

TROUBLESHOOTING CHART

TROUBLE	PROBABLE CAUSE	CHECK-OUT PROCEDURE AND CORRECTION
Motor starter chatters or does not close	Power supply	Check supply voltage across terminals L1 and L2 on single phase and L3 on three phase units. It should be within 10% of that shown on the motor nameplate. Inspect power for blown fuses etc. Call the power company.
	Start or stop switch or auxiliary contacts	Run an insulated jumper wire from terminals L1 to 3 on the motor starter. If contactor closes then problem is probably in the start or stop switch or the auxiliary contacts. Replace necessary parts.
	Open overload relay	push red or green reset button(s) on relay
	Overload relay	Run an insulated jumper wire from terminal L2 to pull in coil. Wire must go to the side of the coil that is connected to the overload relay. If contactor does close when start button is pressed then trouble is in the overload relay. Replace overload if defective.
	Motors with internal thermostat	Run an insulated jumper wire from L2 to the the overload relay Wire must go to the side of the overload relay that DOES NOT go the pull in coil. If contactor does not close trouble is in the motor internal protection. Replace defective part.
	Motor contactor	Connect power supply leads directly to motor leads, if motor runs properly the problem must be in the contactor. Replace necessary parts or complete contactor if defective.
Starter closes but fan runs slow and blows fuses or will not run at all.	Power supply	If fuses continue to blow during starting, check size and type. Use time delay type fuses. See "Specifications" for proper size.
	Power supply	Check voltage across terminals T1 and T2 on single phase and T3 on three phase after pushing start button. It should be within 10% of that shown on nameplate. Check wiring to unit to insure adequate voltage during starting.
	Contacts or contactor	If voltage is not as specified, but checked out all right on line side, then problem is probably in contacts or contactor. Replace defective parts.
	Motor connections	Check motor lead connections with that shown on the motor nameplate. Correct lead connection.
	Capacitors 1 phase	Check for evidence of capacitor overheating. Replace capacitors. Check for adequate starting voltage.
	Motor	Check for freedom of rotation and excessive bearing noise by turning fan blade by hand. Take motor to authorized service station.
Fan runs backwards	Wiring	Compare rotation with arrow on fan blade. Make certain motor lead connections are as shown on motor nameplate.
	Wiring	Compare rotation with arrow on fan blade. Interchange any two power leads (three phase motors only)
Fan vibrates	Mounting	Be sure fan is mounted securely to platform or pad.
	Fan blade	Check for dirt deposits or other irregularities that may cause fan to run out of balance. Correct problem or install new blade.
	Motor shaft	Check for bent motor shaft. If shaft is bent then take motor to authorized service center or replace motor.

220 VOLT 1 PHASE WIRING DIAGRAM

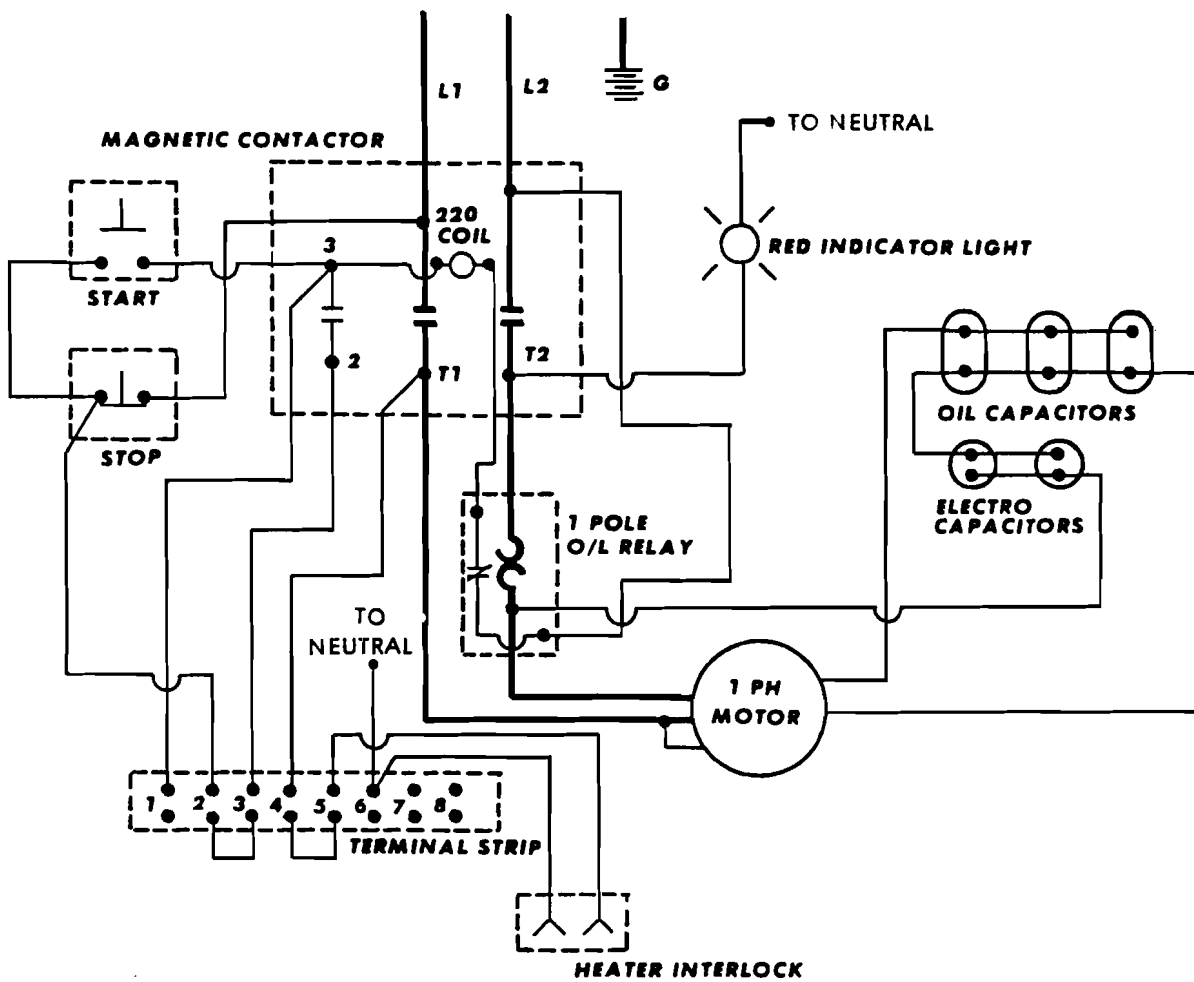
**24" TOP DRY FAN
(9.75 H.P. 3400 RPM BALDOR MOTOR)**



NOTE: POSITIVE GROUND IS REQUIRED FOR PROPER OPERATION.

220 VOLT 1 PHASE WIRING DIAGRAM

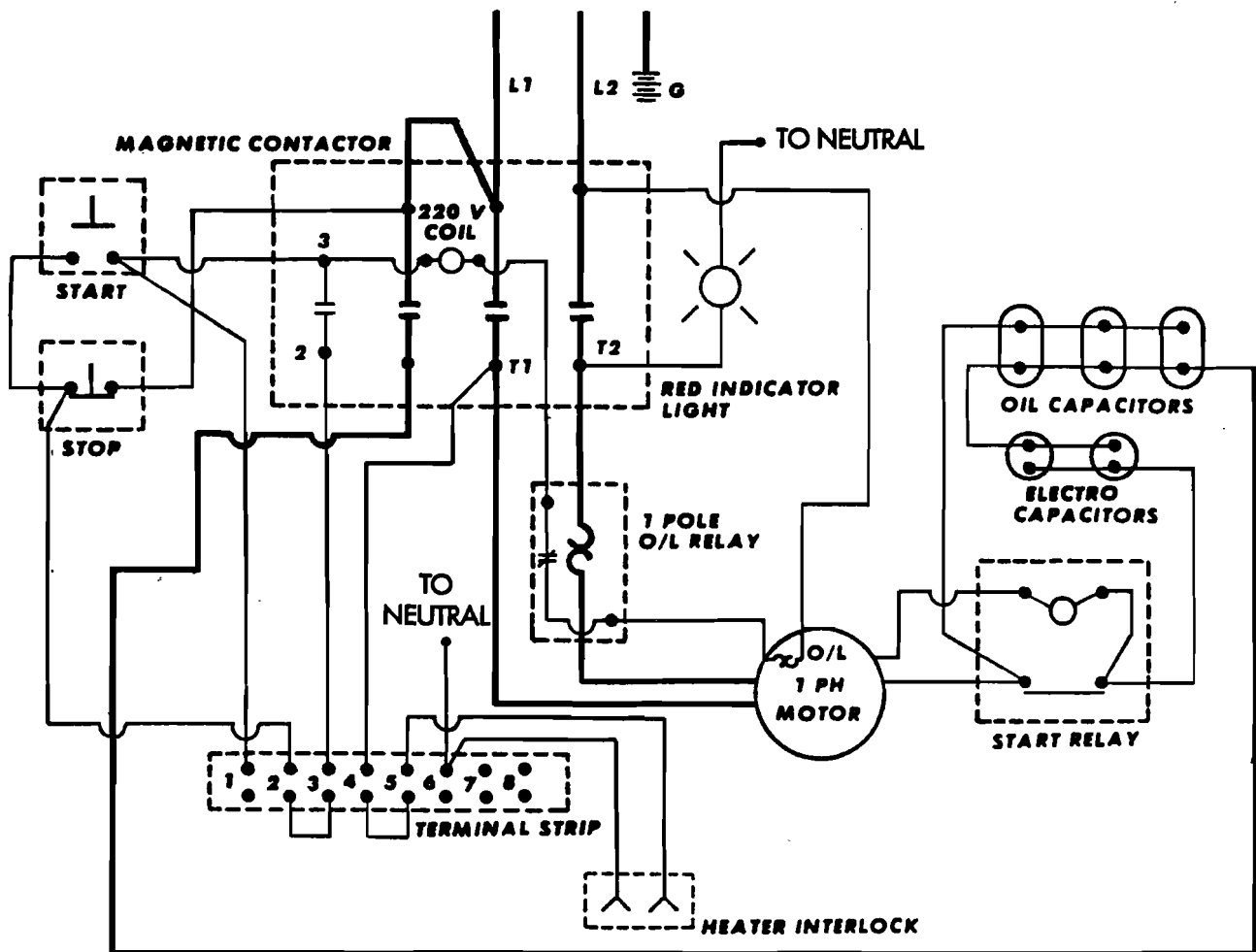
**28" TOP DRY FAN
(10-15 H.P. 3400 RPM BALDOR MOTOR)**



NOTE: POSITIVE GROUND IS REQUIRED FOR PROPER OPERATION.

220 VOLT 1 PHASE WIRING DIAGRAM

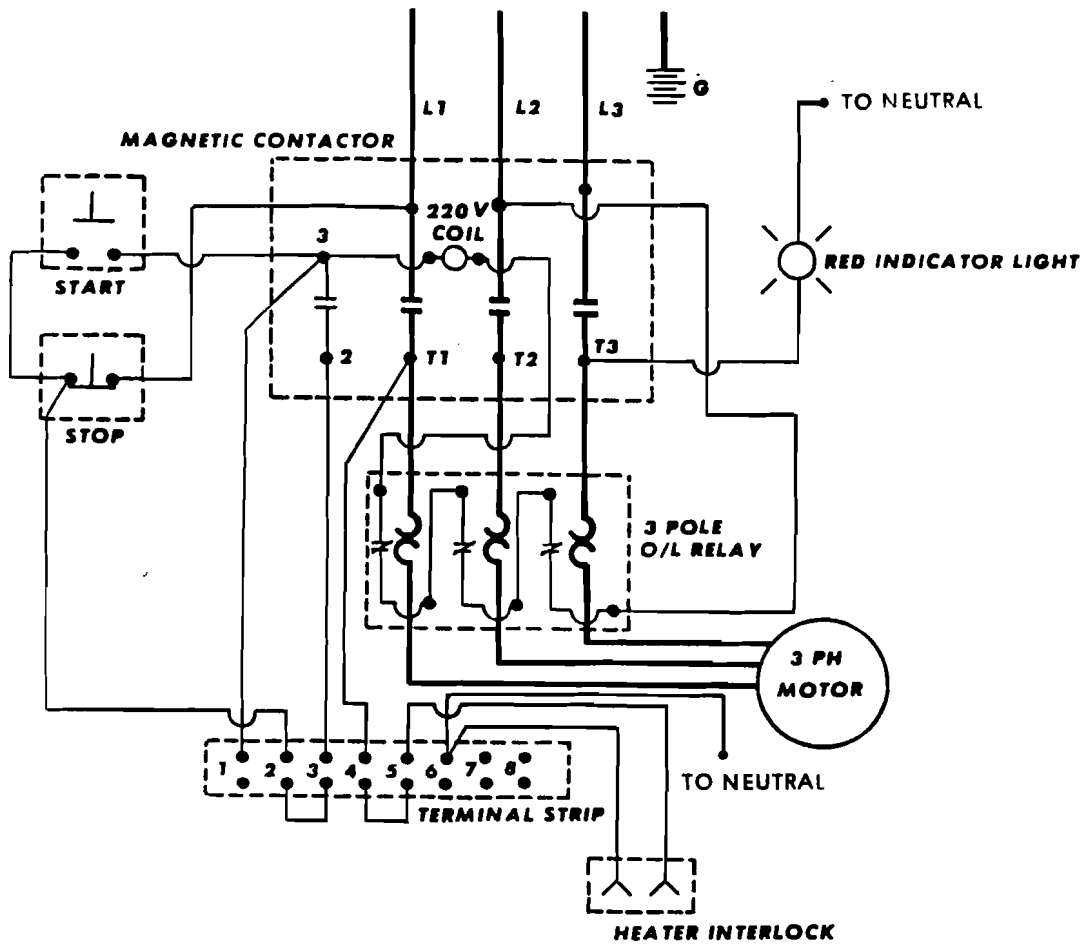
**36" & 42" TOP DRY FANS
(10-16 H.P. 1725 RPM BALDOR MOTOR)**



NOTE: POSITIVE GROUND IS REQUIRED FOR PROPER OPERATION.

220 VOLT 3 PHASE WIRING DIAGRAM

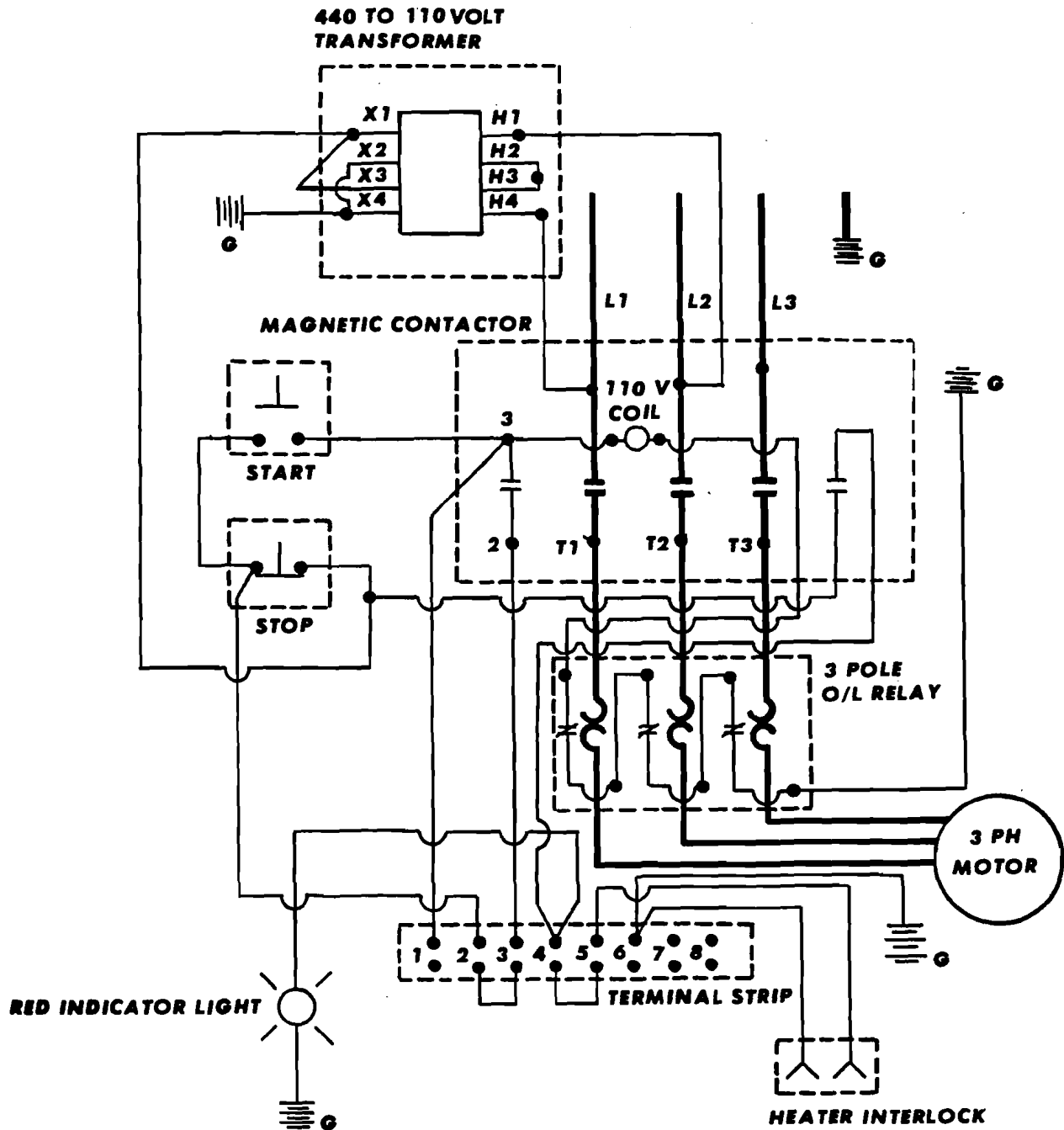
24", 28", 36" & 42" TOP DRY FANS
(BALDOR MOTORS)



NOTE: POSITIVE GROUND IS REQUIRED FOR PROPER OPERATION.

440 VOLT 3 PHASE WIRING DIAGRAM

**24", 28", 36" & 42" TOP DRY FANS
(BALDOR MOTORS)**



DC-334

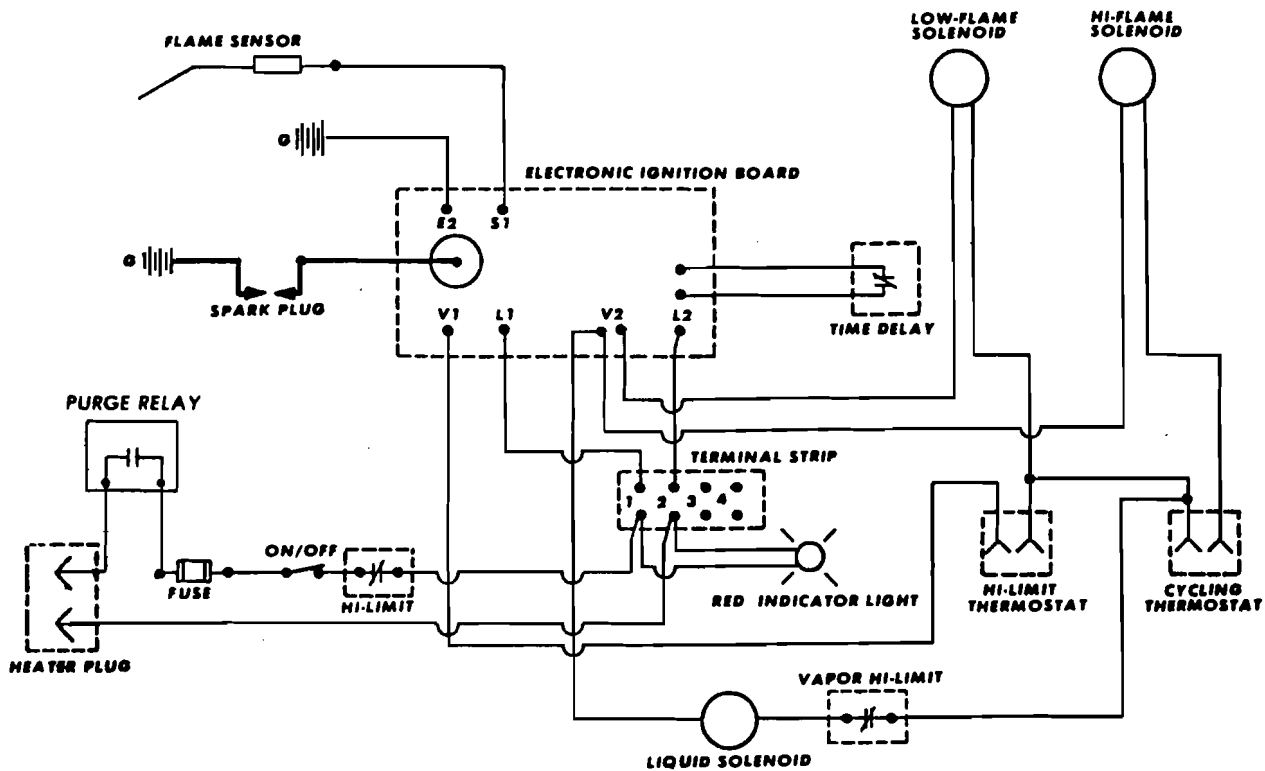
NOTE: POSITIVE GROUND IS REQUIRED FOR PROPER OPERATION.

TROUBLESHOOTING CHART

TROUBLE	PROBABLE CAUSE	CHECK-OUT PROCEDURE AND CORRECTION
Burner will not fire no gas pressure to orifice after 30 seconds of fan operation. (Red light does not come on at all.)	Heater not plugged in.	Plug heater cord into fan control box.
	Purge relay	Remove wires from purge relay and tie them together. If purge relay was bad red light should come on immediately after pressing on/off switch. If purge relay is bad replace
	Blown fuse	Check fuse visually or with ohm meter if bad replace.
	High limit (heater housing)	Press red reset button on hi-limit if this does not correct situation check hi-limit with ohm meter. If hi-limit shows open circuit then replace. (Remove wires before checking.)
	Fan and Heat unit not grounded properly.	Fan and Heat unit must be grounded for proper operation.
Burner will not fire, no gas pressure to orifice. (Red light comes on after 15 seconds of operation.)	Hi-limit reset on HI-LO thermostat	Depress red button on HI-LO thermostat. If this does not correct situation jump around thermostat to determine whether thermostat is bad.
	Vapor Hi-limit	Jump around the Hi-limit and if this corrects situation replace Hi-limit.
	Time Delay Reset (on control box)	Reset button
	Liquid solenoid valve	Feel top of valve to see if it clicks this would indicate that valve is working electrically. If valve does not click, connect 110 volts to valve if this causes valve to click open then valve should be okay. If not replace valve or valve coil.
	Lo-flame solenoid valve	Check out the same as liquid solenoid valve.
	Electronic ignition board	Remove wires from V1 and V2. Push start switch on heater after red light comes on there should be 110 volts between V1 and V2 for 4 seconds. If this is true then board should be okay. If not check power supply to board to make sure that is okay. If power supply checks out replace board.
	Obstruction in line	Remove obstruction.
Gauge shows gas pressure but unit will not fire.	Spark plug	Remove plug wire from spark plug. Carefully holding plug wire by insulation try to get an arc between end of wire and heater housing. HIGH VOLTAGE - STAY CLEAR OF END OF IGNITION WIRE. If spark is present replace or clean plug.
	Spark plug wire	If no spark was present after checking spark plug then problem may be faulty spark plug wire. Remove spark plug from ignition board Ground one end of a screwdriver to frame then bring the shaft of the screwdriver to within 1/8 inch of terminal on board. Turn power on to unit. If arc is established then replace spark plug wire. If arc is not established then replace board.
Heater starts properly but shuts after 10 seconds or solenoids cycle rapidly.	Flame sensor not in proper position.	Move flame probe into flame.
	Flame probe in bad condition.	Replace flame probe wire.
	Flame probe wire bad	Replace flame probe wire.
Lines freeze while starting.	Moisture in fuel	Call qualified gas serviceman to check tank
Cooling coil gets very hot and heater shuts off.	Vaporizer getting too hot.	Adjust vaporizer out of flame. Move small amount at a time and allow heater to run for a few minutes before checking cooling coil.

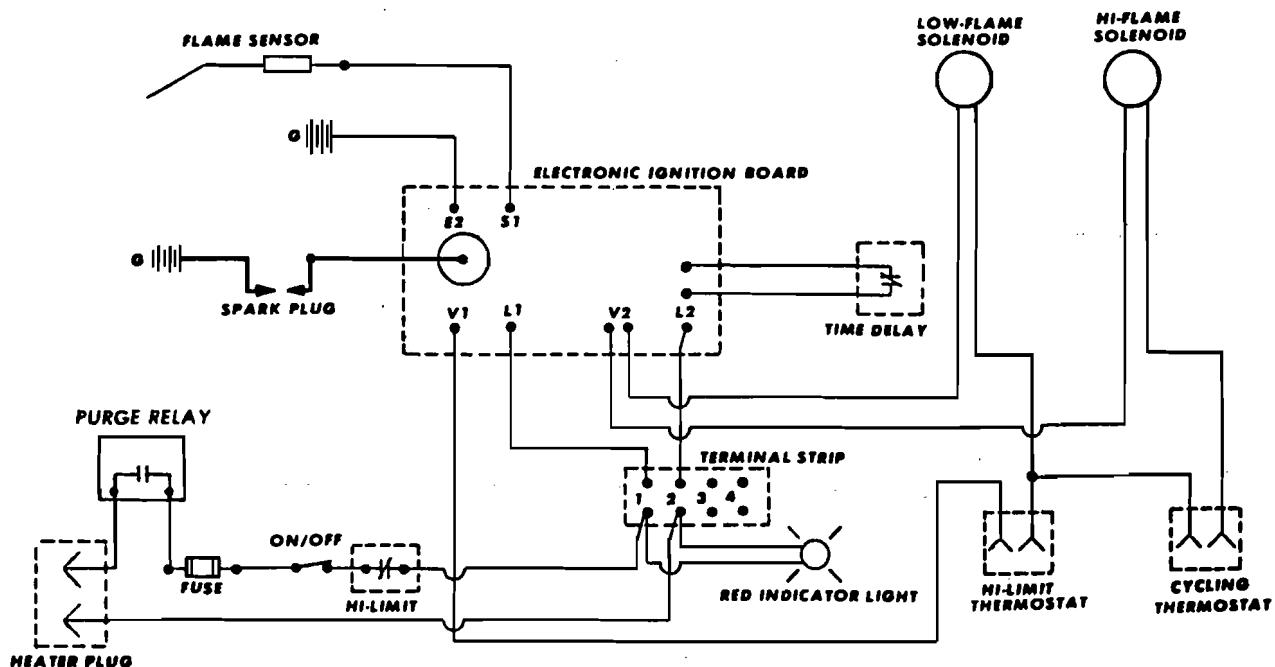
24", 28", 36" & 42" TOP DRY HEATER WIRING DIAGRAM

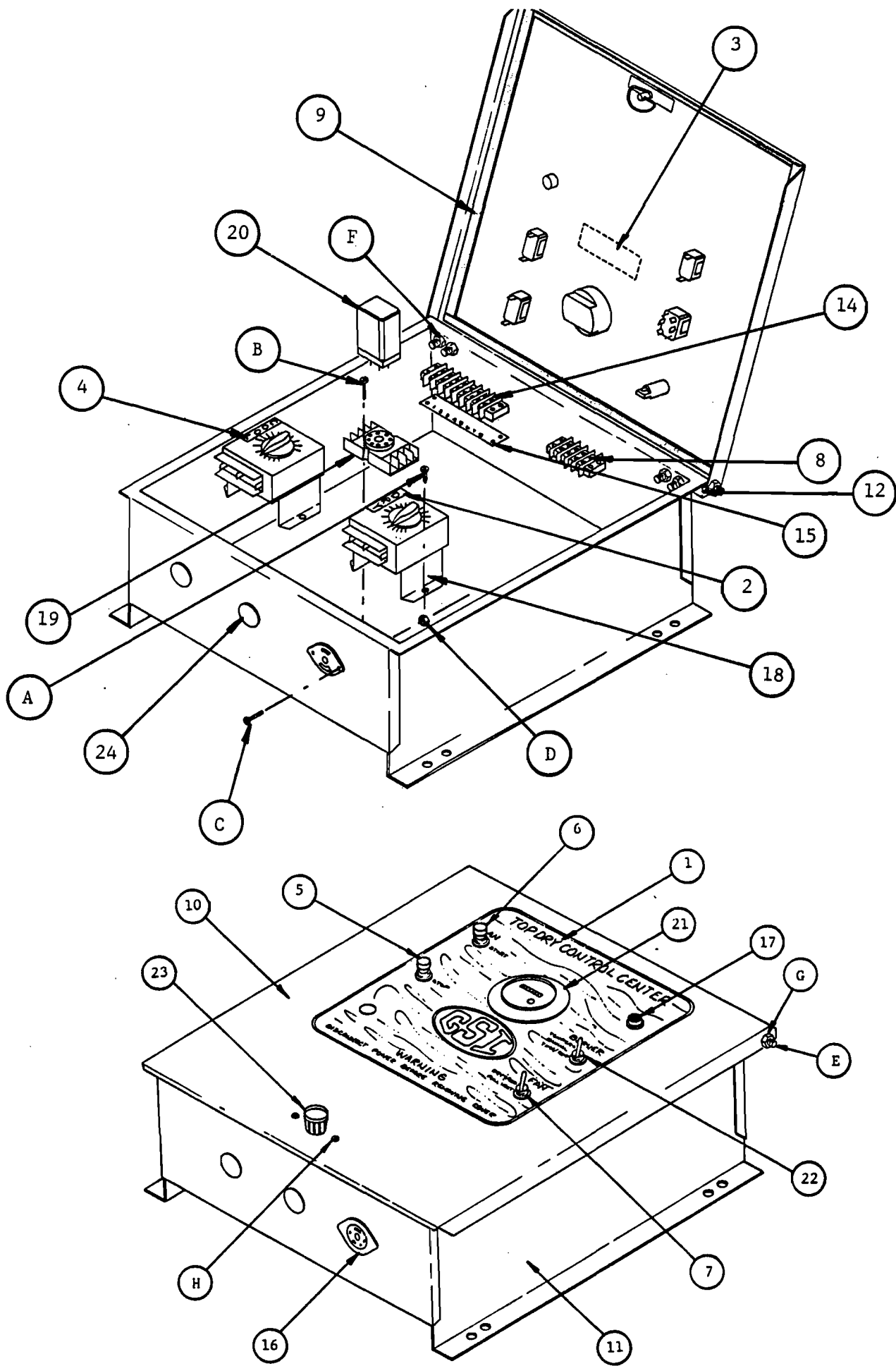
LIQUID PROPANE

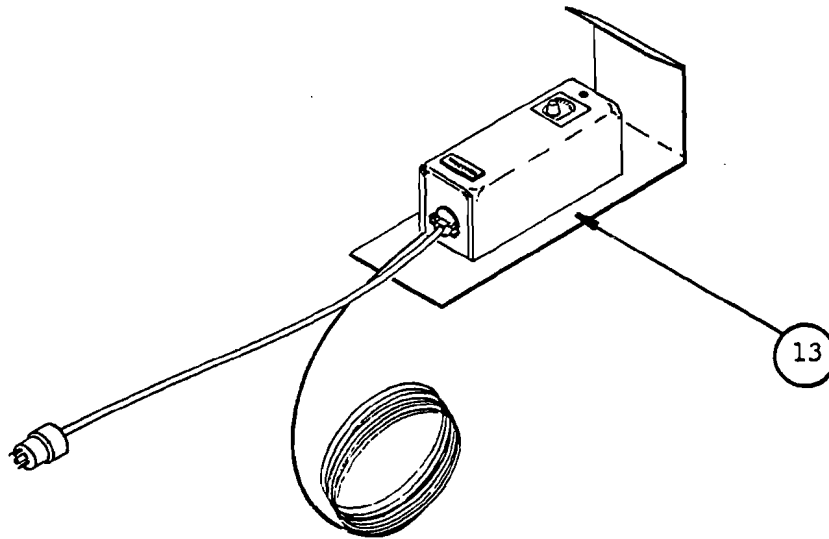


24", 28", 36" & 42" TOP DRY HEATER WIRING DIAGRAM

NATURAL GAS & VAPOR

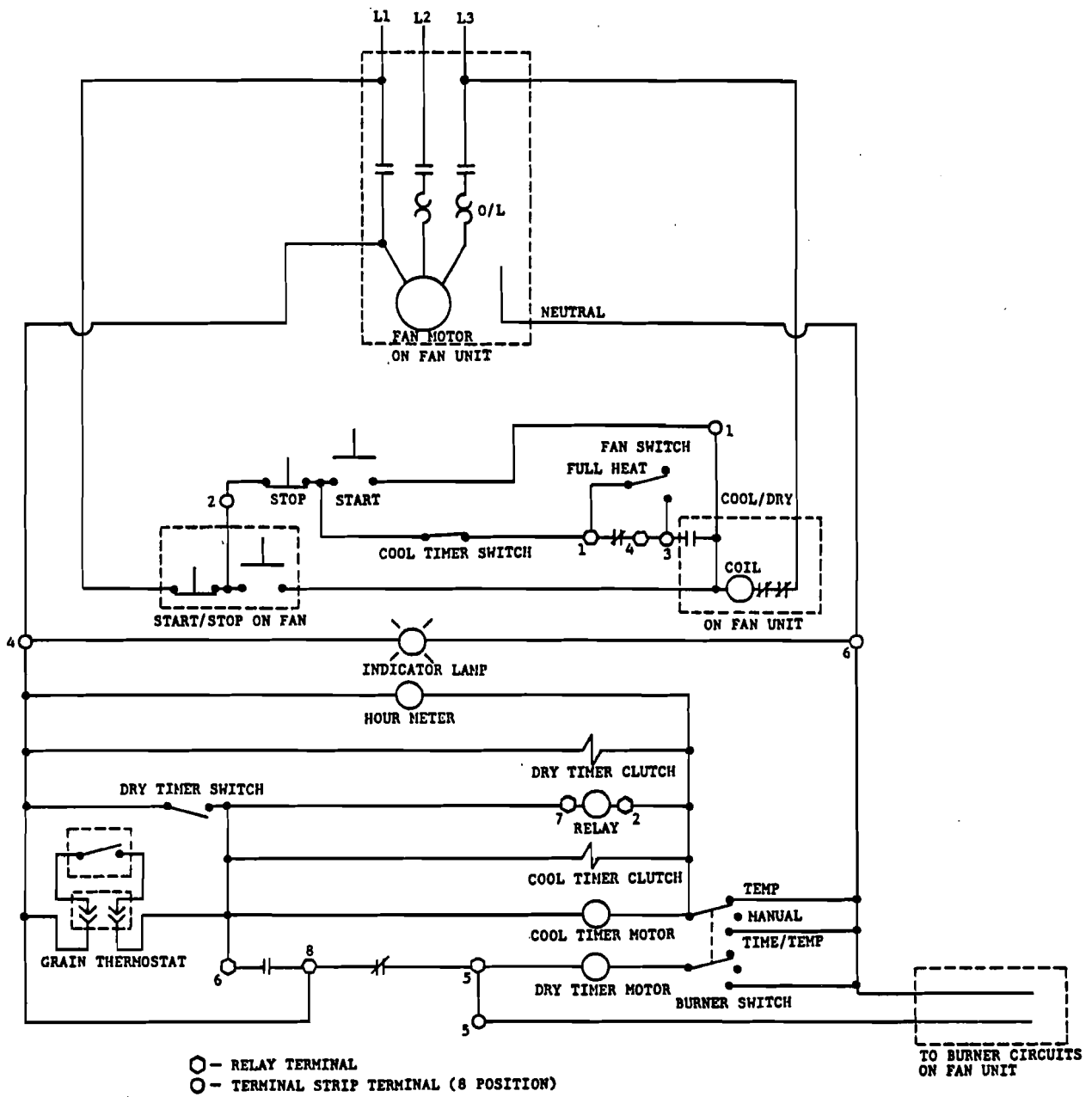




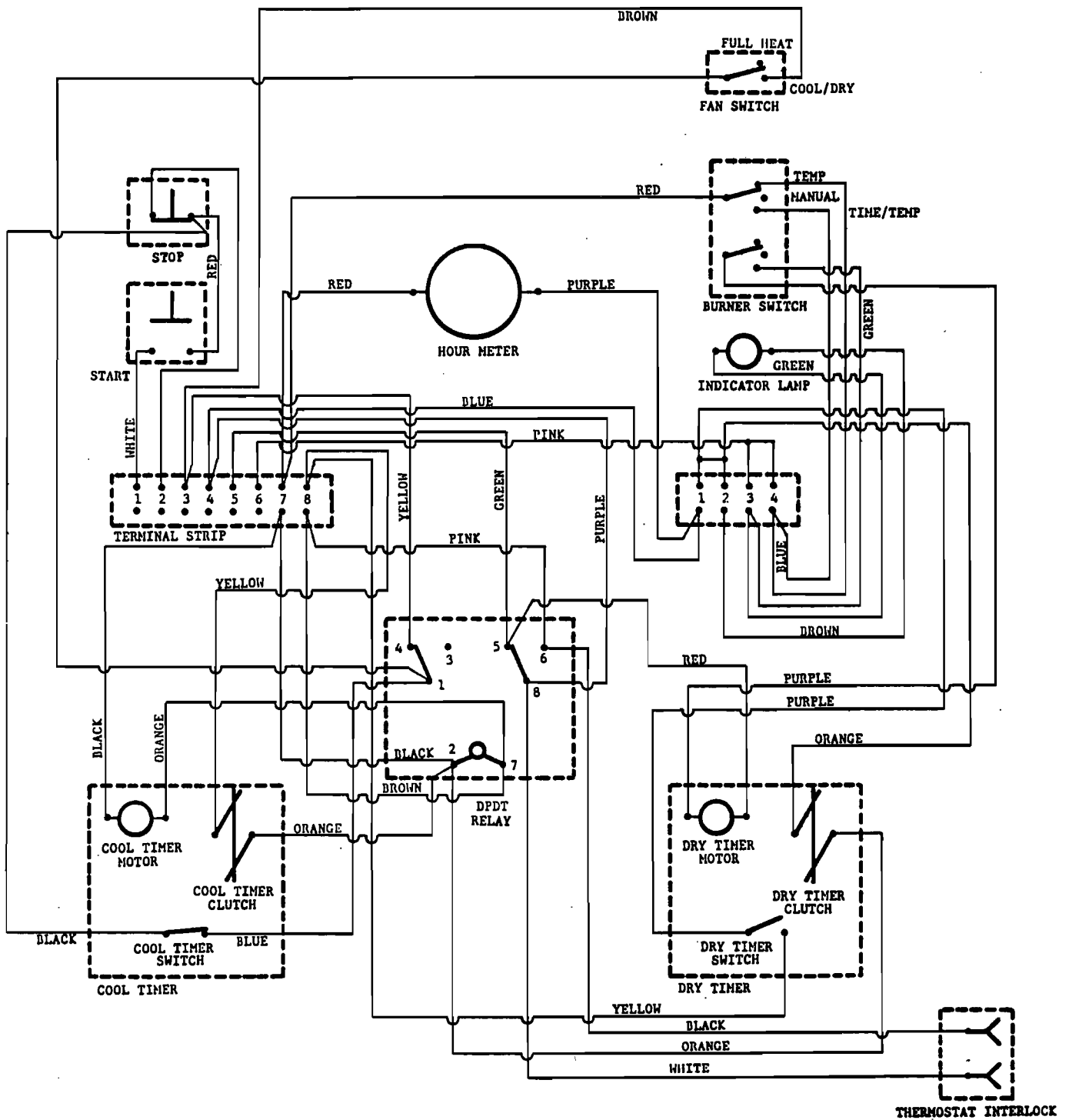


TOP DRY CONTROL CENTER PARTS

ITEM	PART NO.	DESCRIPTION	QUANTITY
1	DC-328	TOP DRY CONTROL CENTER DECAL.	1
2	DC-343	DRY DECAL	1
3	DC-345	WIRING DIAGRAM DECAL.	1
4	DC-346	COOL DECAL.	1
5	FH-1000	STOP SWITCH	1
6	FH-999	START SWITCH.	1
7	HH-1442	SPST TOGGLE SWITCH.	1
8	HH-1994	4 CONDUCTOR TERMINAL BLOCK.	1
9	S-2052	WEATHER STRIPPING	AR
10	TF-1057	CONTROL CENTER LID.	1
11	TF-1059	CONTROL CENTER BOX WELDMENT	1
12	TF-1094	HINGE BRACKETS.	2
13	TF-1130	GRAIN THERMOSTAT ASSEMBLY	1
14	TFH-2013	8 CONDUCTOR TERMINAL STRIP.	1
15	TFH-2052	8 CONDUCTOR TERMINAL STRIP MARKER	1
16	TFH-2014	THERMOSTAT RECEPTACLE	1
17	TFH-2021	RED INDICATOR LIGHT	1
18	TFH-2040	12 HOUR TIMER	2
19	TFH-2042	8 PIN RELAY BASE.	1
20	TFH-2043	DPDT CONTROL RELAY.	1
21	TFH-2044	HOUR METER.	1
22	TFH-2025	DPDT TOGGLE SWITCH.	1
23	TFH-2046	SPRING LATCH.	1
24	TFH-2048	7/8" HOLE PLUG.	1
		STANDARD HARDWARE ITEMS (PURCHASE LOCALLY)	
A	S-1040	8-32 X 1/4" SHEET METAL SCREW	4
B	FH-2609	8-32 X 5/8" SHEET METAL SCREW	6
C	HH-1505	5-40 X 1/2" PAN HD MACH SCREW	5
D	HH-1506	5-40 NUT.	5
E	S-4336	5/16" X 1" RD. HD. BOLT	6
F	S-3611	5/16" FLANGED NUT	4
G	S-4763	5/16" LOCK NUT.	2
H	S-4752	6-32 X 3/4" SHEET METAL SCREW	4



TOP DRY CONTROL CENTER SCHEMATIC DIAGRAM



TOP DRY CONTROL CENTER WIRING DIAGRAM

DC-345

AIRSTREAM

1991-93 TOPDRY

AUTOFLOW SYSTEM

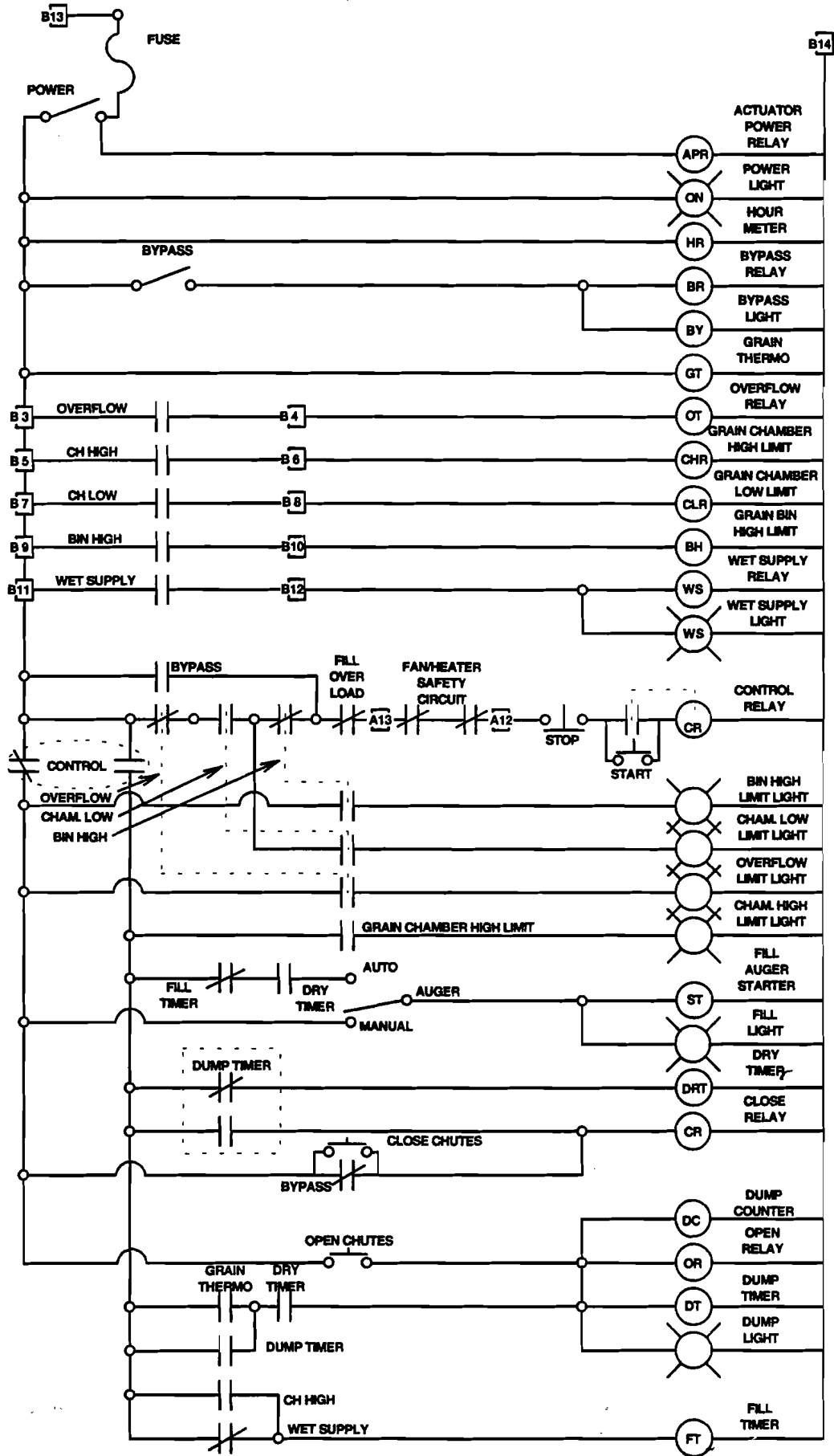




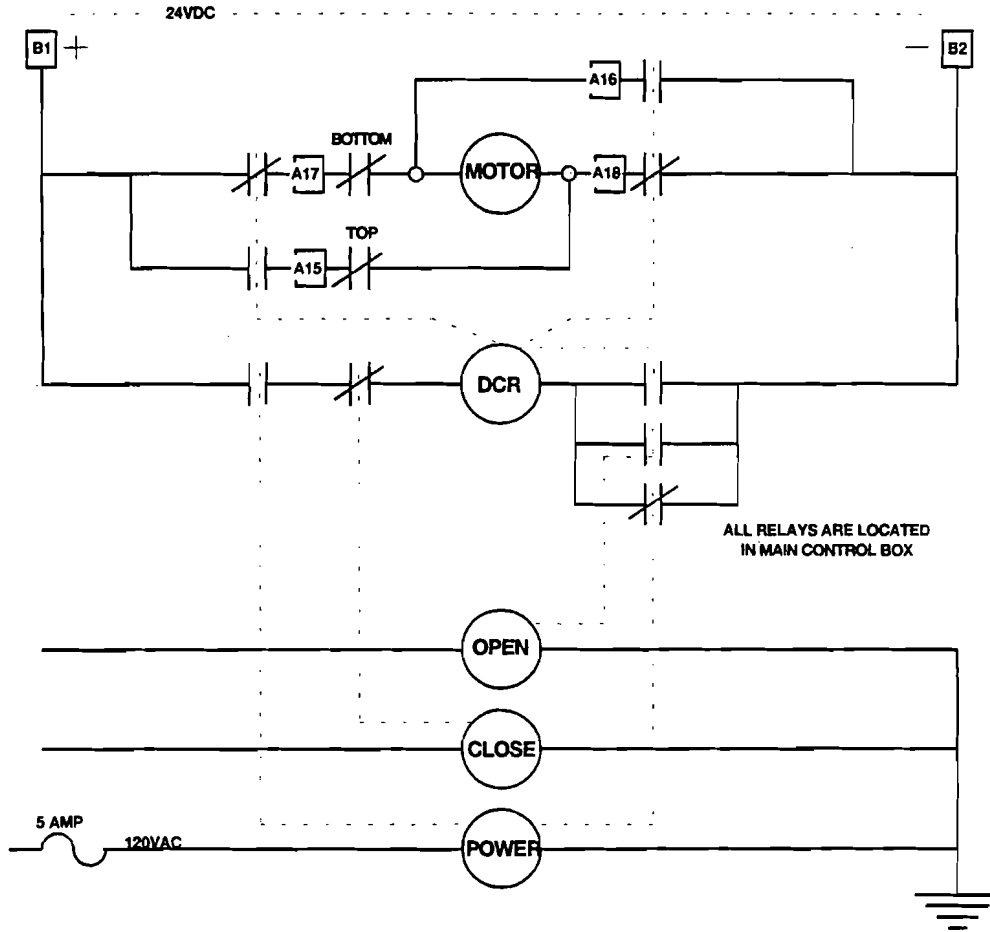
Continuous Flow Controls comparison



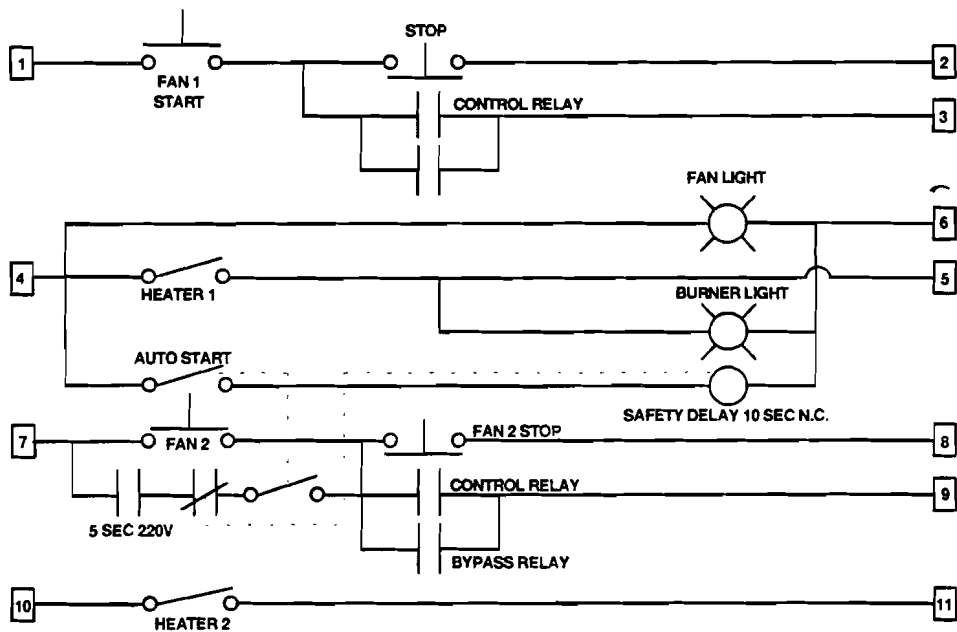
		KA-610	GSI
1	Automatic shutdown in event of fill switch failure	no	yes
2	Ability to dry and cool in batch mode	no	yes
3	Ability to run batch or continuous flow	cont. only	yes
4	All safety and timing functions on backlit LCD display	no	yes
5	Number of sensors for grain moisture averaging (more sensors better accuracy)	2	4
6	Automatic starting of fans and heaters	no	yes
7	Bypass switch required for starting	yes	no
8	All controlled devices indicated on front panel	no	yes
9	Staged starting of fans and heaters	no	yes
10	Aeration fan control	no	yes
11	Shuts down as soon as wet supply is empty (after auger clean out)	no	yes
12	Completely driven by software (easy to upgrade)	no	yes
13	Power loss automatic chute closing	no	yes
14	Auger fill delay	no	yes
15	Control of 2 auger systems (for systems without wet hopper tank)	no	yes
16	Motor Starter for main fill auger	no	yes
17	Monitors all fan and heater safeties (8) and indicates which shut unit down	no	yes
18	Grain temperature hi-limit protection	no	yes
19	Plenum Hi-temperature protection	no	yes
20	Hour meter	no	yes
21	Keeps track of time and date and what shut unit down (saves last 25)	no	yes
22	Totally microprocessor based (no moving parts)	no	yes
23	Total system manufactured by one company	no	yes



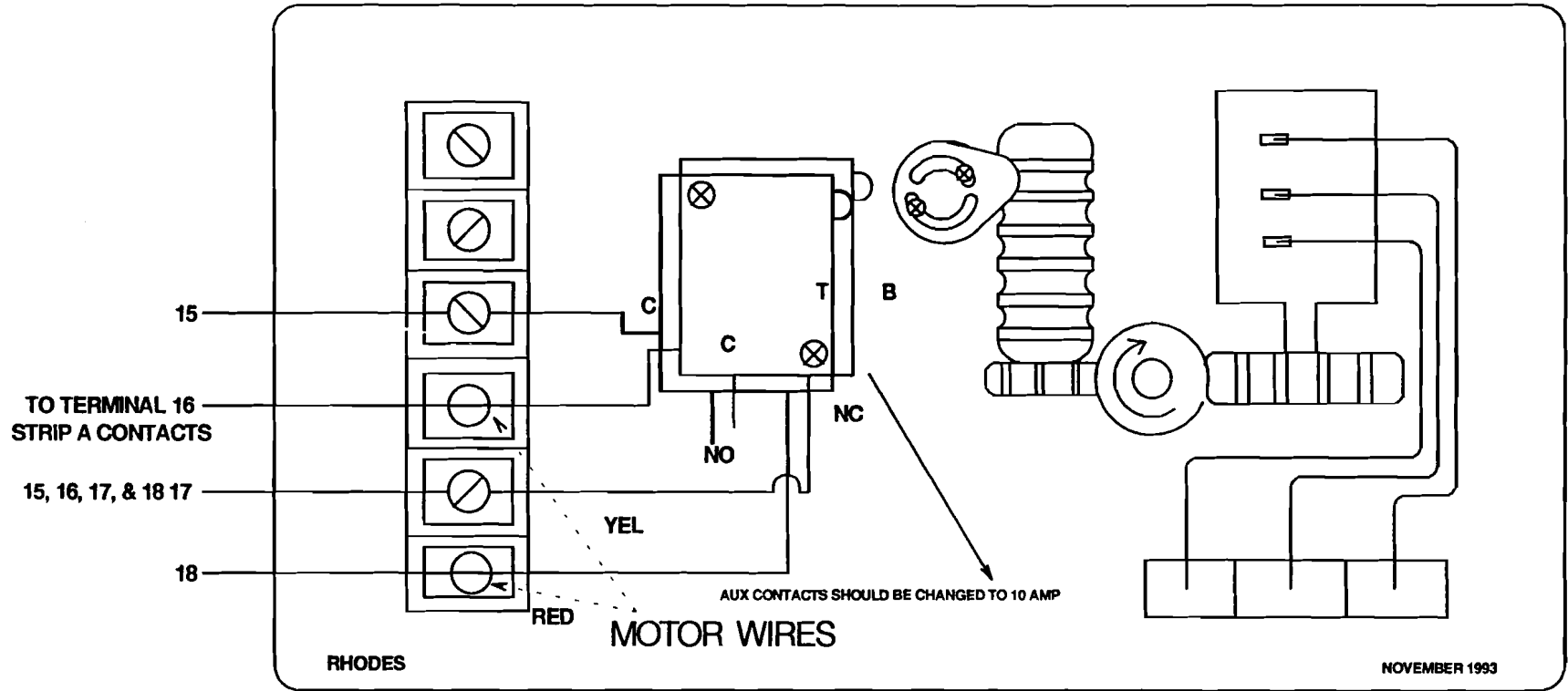
ACTUATOR CIRCUIT SCHEMATICS



FAN/HEATER CONTROL SCHEMATICS



24 VOLT DC ACTUATOR WIRING



**TOP DRY
AUTO-FLOW
ELECTRICAL
INSTALLATION
&
OWNER'S MANUAL**

Drill 2" diameter holes through roof panels at locations shown on page __. Use a mounting plate as a pattern and drill (4) 3/8" holes through roof panels at each switch location so the plate can be bolted to the roof.

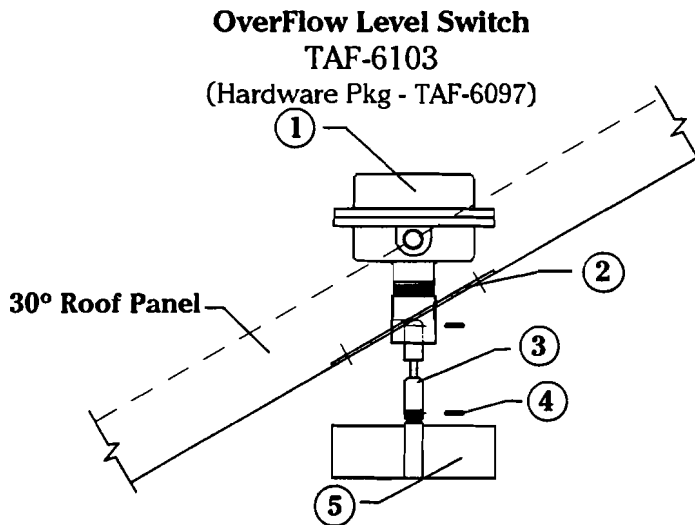
Attach flex-coupling to the power-pak. Apply teflon tape or pipe sealant (not included) to power-pak pipe threads and thread power-pak into mounting plate coupling. Conduit opening in power-pak should be at right angles to roof rib or face toward eave.

Caulk underside of mounting plate above and both sides of 2" hole. Bolt to roof panel.

Attach shaft extension. Use teflon tape or pipe sealant (not included) on shaft guard and thread to underside of mount plate coupling. Add 1/4" drilled coupling and paddle.

**INSTALLATION OF
ROOF-MOUNTED
LEVEL SWITCHES**

**Note: Single vane
paddle is used on
LOW level switch.**



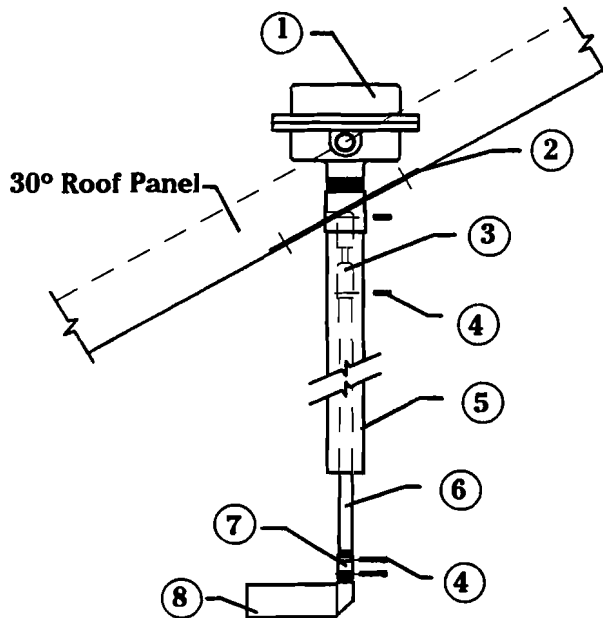
Key	Part No.	Description	Qty.	Wt.
1	TD-100076	Rotary Switch Power-Pak	1	3.50
2	TD-100627	Roof Mount Coupling Weldment	1	2.14
3	TD-100075	Flex-Coupling	1	.50
4	S-7241	1/8" x 1.14" Cotter Pin	2	.00
5	TAF-6086	3-Vane Paddle	1	.75
*	TAF-6097	Hardware Pkg	1	.98
-	PNEG-300	Rotary Switch Instructions	1	.04
-	S-275	5/16"-18 x 3/4" Bin Bolt	6	.16
-	S-3651	Tube Seal	1	.71
-	S-396	5/16"-18 Hex Nut	6	.06
-	S-7241	1/8" x 1.1/4" Cotter Pin	2	.00

* Hardware Package not shown

- Included in Hardware Package

**TOP DRY
AUTO-FLOW
ELECTRICAL
INSTALLATION
&
OWNER'S MANUAL**

**Low Limit Rotary Switch Assembly
18'/36' - TAF-6100
(Hardware Pkg - TAF-6097)**



Note: Single vane paddle is used on LOW level switch.

Key	Part No.	Description	Qty.	Wt.
1	TD-100076	Rotary Switch Power-Pak	1	3.50
2	TD-100627	Roof Mount Coupling Weldment	1	2.14
3	TD-100075	Flex-Coupling	1	.50
4	S-7241	1/8" x 1.14" Cotter Pin	2	.00
5	TAF-6087	18'-24' Shaft Guard 12"	1	.00
	TAF-6089	27'-30' Shaft Guard 15"	1	.00
	TAF-6091	36' Shaft Guard 8"	1	.00
6	TAF-6088	18'-24' Shaft Extension	1	.54
	TAF-6090	27'-30' Shaft Extension	1	.675
	TAF-6092	36' Shaft Extension	1	.0
7	TAF-6107	1/4" Drilled Coupling	1	.00
8	TAF-6085	1-Vane Low Limit Paddle	1	.75
*	TAF-6097	Hardware Pkg	1	.98
-	PNEG-300	Rotary Switch Instructions	1	.04
-	S-275	5/16"-18 x 3/4" Bin Bolt	6	.16
-	S-3651	Tube Seal	1	.71
-	S-396	5/16"-18 Hex Nut	6	.06
-	S-7241	1/8" x 1.1/4" Cotter Pin	2	.00

* Hardware Package not shown

- Included in Hardware Package

TOP DRY AUTO-FLOW

ELECTRICAL
INSTALLATION
&
OWNER'S MANUAL

Note: Single vane paddle is used on LOW level switch.

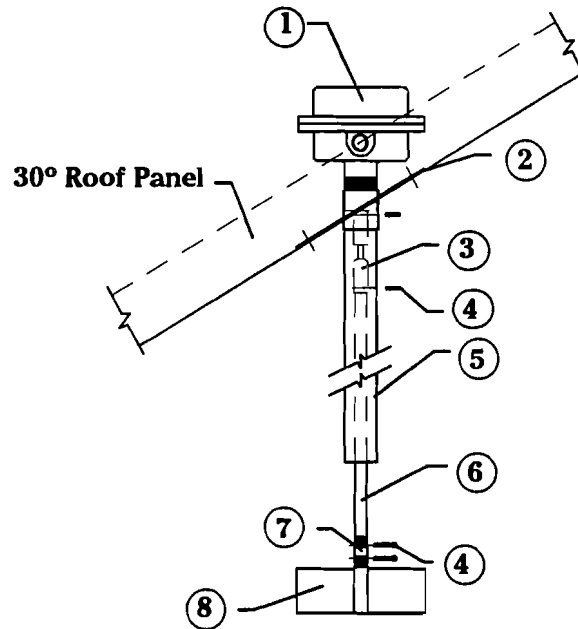
High Limit Rotary Switch Assembly

18'/24' - TAF-6099

27'/30' - TAF-6101

36' - TAF-6103

(Hardware Pkg - TAF-6097)



Key	Part No.	Description	Qty.	Wt.
1	TD-100076	Rotary Switch Power-Pak	1	3.50
2	TD-100627	Roof Mount Coupling Weldment	1	2.14
3	TD-100075	Flex-Coupling	1	.50
4	S-7241	1/8" x 1.14" Cotter Pin	2	.00
5	TAF-6087	18'-24' Shaft Guard 12"	1	.00
	TAF-6089	27'-30' Shaft Guard 15"	1	.00
	TAF-6091	36' Shaft Guard 8"	1	.00
6	TAF-6088	18'-24' Shaft Extension	1	.54
	TAF-6090	27'-30' Shaft Extension	1	.675
	TAF-6092	36' Shaft Extension	1	.0
7	TAF-6107	1/4" Drilled Coupling	1	.00
8	TAF-6086	3-Vane High Limit Paddle	1	.75
*	TAF-6097	Hardware Pkg	1	.98
-	PNEG-300	Rotary Switch Instructions	1	.04
-	S-275	5/16"-18 x 3/4" Bin Bolt	6	.16
-	S-3651	Tube Seal	1	.71
-	S-396	5/16"-18 Hex Nut	6	.06
-	S-7241	1/8" x 1.1/4" Cotter Pin	2	.00

* Hardware Package
not shown

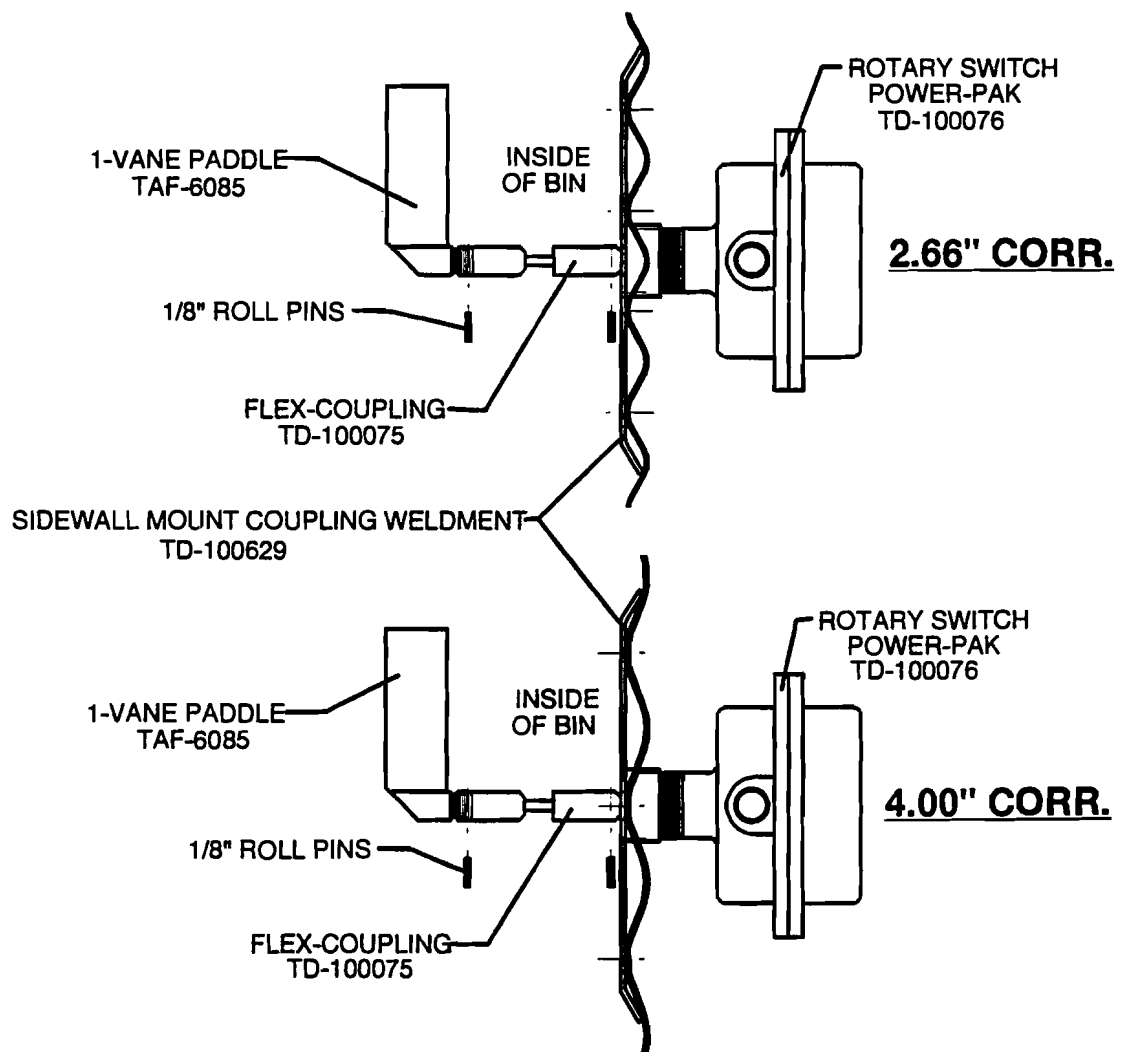
- Included in Hardware
Package

INSTALLATION OF WALL MOUNTED LEVEL SWITCH

Drill 2" hole through wall at desired location. If bin is 2.66" corrugation, hole should be centered on outside hill. If bin is 4.00" corrugation, hole should be centered on outside valley.

Position mount plate as desired (from inside), mark and drill 3/8" holes. Caulk coupling abundantly where it passes thru wall. Add foam weather strip around top and sides of plate then bolt to bin wall. Caulk coupling to wall seam from outside.

Attach flex coupling to power-pak. Add teflon tape or pipe sealant (not provided) to power-pak pipe threads and thread into coupling. Conduit opening should be horizontal or down. Add one-vane paddle. (Paddle may be added to flex coupling before power-pak is threaded into coupling if desired.)



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