YORK®	*MILLENNIUM* ® AIR-COOLED LIQUID CHILLERS HERMETIC SCROLL	
WIRING DIAGRAM	Supersedes: Nothing	Form 150.62-W2 (899)

YCAL0043SC - YCAL0253SC
(50 Hz)

29224(R)A

Metric Conversions

380 - 415/3/50
MODEL ONLY

Standard, Glycol & Metric Models, Combined

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MANUAL USAGE AND REVISIONS

In complying with YORK's policy for continuous product improvement, the information contained in this document is subject to change without notice. While YORK makes no commitment to update or provide current information automatically to the manual owner, that information, if applicable, can be obtained by contacting the nearest YORK Service office. It is the responsibility of operating/service personnel to verify the applicability of these documents to the equipment in question. If there is any question in the mind of operating/service personnel as to the applicability of these documents, verification with the equipment owner pertaining to equipment modifications and current literature should be made prior to operating or servicing the equipment.

This document is intended for use by owner-authorized operating/service personnel. It is expected that anyone operating or servicing this equipment possesses the knowledge that will enable them to perform tasks properly and safely. It is essential that prior to performing any task on this equipment, the individual shall have read and understood this document and any referenced materials. This individual shall also comply with all applicable governmental standards and regulations pertaining to the task in question.

It is the obligation and responsibility of operating/service personnel to work safely. Failure to comply with any of these requirements could result in serious damage to the equipment and/or the property in which it is situated, as well as severe personal injury or death to people at the site.

GENERAL SAFETY GUIDELINES

During installation, operation, maintenance or service, individuals may be exposed to certain components or conditions including, but not limited to, refrigerants, oils, materials under pressure, rotating components, and both high and low electrical voltages. Each of these items has the potential, if misused or handled improperly, to cause bodily injury or death. It is essential that operating/service personnel identify and recognize these inherent hazards, protect themselves, and proceed safely in completing their tasks.

WARNING

HIGH VOLTAGE
Is used in the operation of this equipment.
DEATH OR SERIOUS INJURY
may result if personnel fail to observe safety precautions.

Work on electronic equipment should not be undertaken unless the individual(s) have been trained in the proper maintenance of equipment and is (are) familiar with its potential hazards.

Shut off power supply to the equipment before beginning work and follow lockout procedures. When working inside equipment with power off, take care to discharge every capacitor likely to hold dangerous potential.

Be careful not to contact high voltage connections when installing or operating this equipment.

LOW VOLTAGE

DO NOT be misled by the term "low voltage." Voltages as low as 50 volts may cause death.

PRODUCT IDENTIFICATION NUMBER (PIN)

EXAMPLES:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Y	C	A	L	0	2	5	3	S	C	5	0	X	A	A

BASIC MODEL NUMBER

YCAL0253**SC**50**xAA**

1 2 3 4 BASE PRODUCT TYPE

- Y : YORK
- C : Chiller
- A : Air-Cooled
- U : Condensing Unit
- L : Scroll

5 6 7 8 NOMINAL CAPACITY

- 0 1 # # # #
- 60HZ: Nominal Tons: Even Number
- 50HZ: Nominal kW: Odd Number

9 UNIT DESIGNATOR

- S : Standard Unit

10 REFRIGERANT

- C :R-22

11 12 13 VOLTAGE/STARTER

- 5 0 : 380-415/3/50
- X : Across the Line

14 15 DESIGN/DEVELOPMENT LEVEL

- A A : Design Series A : Engineering Change or PIN Level

PRODUCT IDENTIFICATION NUMBER (PIN)

EXAMPLES:

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
X	X	T	C	A	T	S	R	N	X	P	R	S	2	5	C	X	1	X	X	X	X	3	D	W	S	A	X	X	B	X	X	4	B	X	X	L	X	S	D

OPTIONS MODEL NUMBER

16 17 18 19 POWER FIELD

- XX : MP Supply TB
- SX : SP Supply TB
- SD : SP NF Disconnect Switch
- BX : SP Circuit Breaker w/ Lockable Handle
- T : Control Transformer (factory)
- C : Power Factor Capacitor

MP = Multiple Point
SP = Single Point
NF = Non-Fused
TB = Terminal Block
Ser. = Service
Ind. Sys. Brkr. & L. Ext. Handles = Individual System Breaker & Lockable External Handle

20 21 22 23 24 25 26 27 28 CONTROLS FIELD

- L : Low Ambient Kit (factory)
- H : High Ambient Kit (factory)
- A : Both Low / High Ambient (factory)
- T : BAS/EMS Temp. Reset / Offset
- S : Spanish LCD & Keypad Display
- F : French LCD & Keypad Display
- G : German LCD & Keypad Display
- R : Discharge Pressure Transducers/ Readout Kit
- S : Suction Pressure Transducers / Readout Kit
- B : Both Discharge & Suction Pressure Transducers / Readout
- C : European Safety Code (CE) (cU.L./cETL)
- N : No Listing (typically 50HZ non-CE, non-U.L.
- R : Remote Control Panel
- S : Sequence Control & Automatic Lead Transfer

29 30 31 32 33 34 35 3637 COMPRESSOR / PIPING FIELD

- ## TS : Temp. Brine (LBrT)
- ## : Thermal Storage
- C : Chicago Relief Code
- 1 : Hot Gas By-Pass (# circuits)

38 39 40 41 42 43 44 EVAP. FIELD

- 3D : 300 PSIG DWP Waterside
- W : Double Thick Insulation
- V : Weld Flange Kit
- S : Vitaulic Flange Kit
- A : Flow Switch
- R : ASME Pressure Vessel & Associated Codes
- : Remote DX Cooler

May differ in the future.

45 46 47 CONDENSER FIELD

- X : Aluminum
- C : Copper
- B : Black Fin
- P : Phenolic
- X : TEAO Fan Motors

48 49 50 51 52 53 54 CABINET FIELD

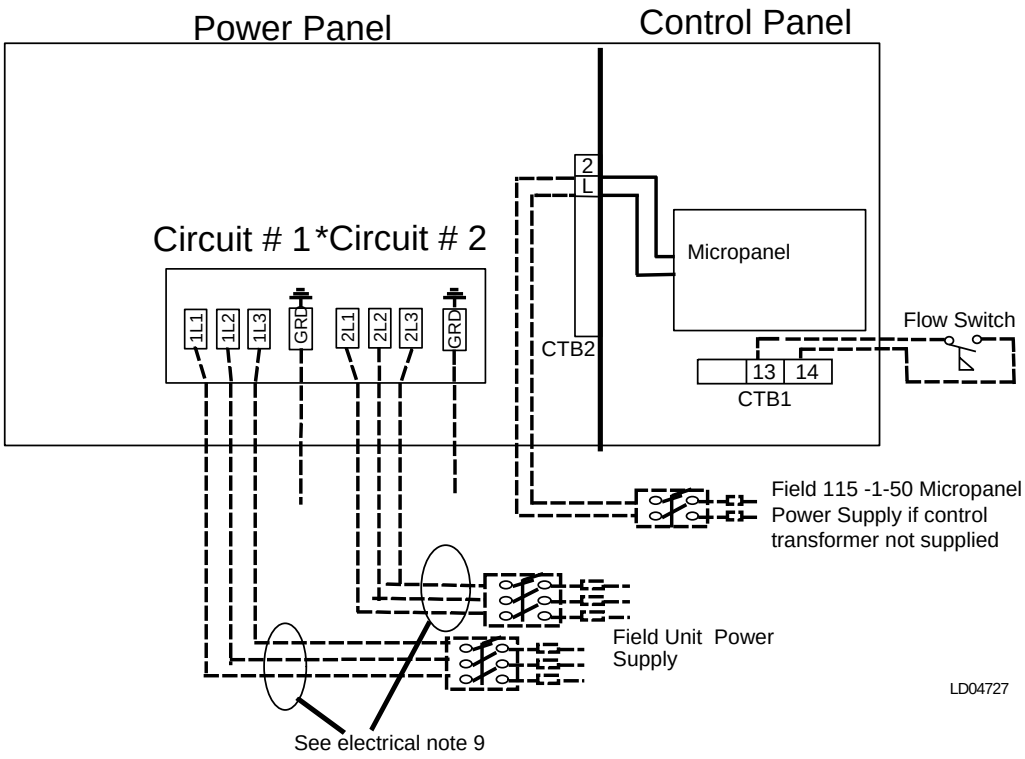
- x
- 1 : Wire Condenser Headers Only (factory)
- 2 : Wire (Full Unit) Enc. Panels (factory)
- 3 : Wire (Full Unit) Enc. Panels (field)
- 4 : Wire/Louvered Enc. Panels (factory)
- 5 : Wire/Louvered Enc. Panels (field)
- 6 : Louvered (Cond. Only) Enc. Panels (factory)
- 7 : Louvered (Cond. Only) Enc. Panels (field)
- 8 : Louvered (Full Unit) Enc. Panels (factory)
- B : Louvered (Full Unit) Enc. Panels (field)
- L : Acoustic Sound Blanket
- 1 : Low Sound Fans
- 1 : 1" Deflection
- S : Seismic
- N : Neoprene Pads

55 EXTENDED FIELD

- X
- B : 1st Year Parts Only
- C : 1st Year Parts & Labor
- D : 2nd Year Parts Only
- E : 2nd Year Parts & Labor
- F : 5 Year Compressor Parts Only
- G : 5 Year Compressor Parts & Labor Only
- G : 5 Year Units Parts Only
- H : 5 Year Unit Parts & Labor

NOTES:
1. Q :DENOTES SPECIAL / S.Q.
2. # :DENOTES STANDARD
3. X :w/in OPTIONS FIELD, DENOTES NO OPTION SELECTED
4. Agency Files (i.e. U.L. / ETL; CE; ARI; ETC.) will contain info. based on the first 14 characters only.

STANDARD POWER SUPPLY WIRING – (YCAL0043 - 0253)



*Models YCAL0117 - 0253 Only (Models YCAL0043 - 0107 are Single Point)

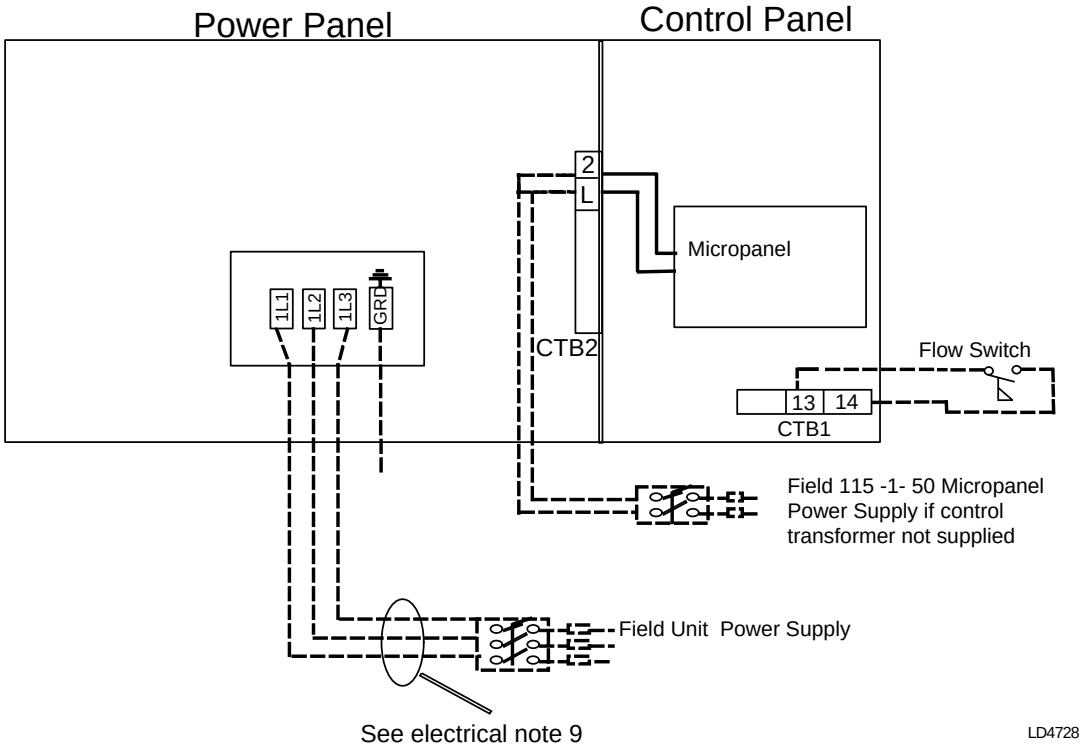
It is possible that multiple sources of power can be supplying the unit power panel. To prevent serious injury or death, the technician should verify that no lethal voltages are present inside the panel after disconnecting power, prior to working on equipment.

The unit evaporator heater uses 115VAC. Disconnecting 115VAC power from the unit, at or below freezing temperatures, can result in damage to the evaporator and unit as a result of the chilled liquid freezing.

Electrical Notes and Legend located on Page 10.

FIG. 1 – STANDARD POWER SUPPLY WIRING

OPTIONAL SINGLE POINT POWER SUPPLY WIRING – (YCAL0117 - 0253)



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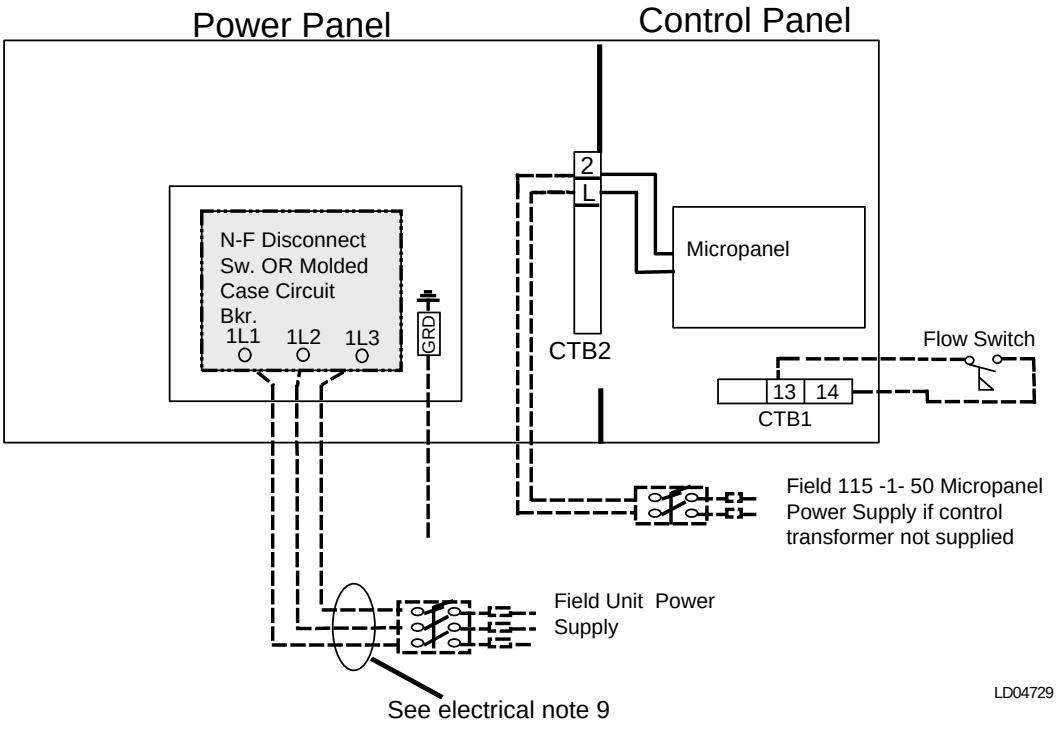
Electrical Notes and Legend located on Page 10.

FIG. 2 – OPTIONAL SINGLE POINT POWER SUPPLY WIRING

OPTIONAL SINGLE-POINT POWER SUPPLY WIRING
N-F DISC Sw OR CIRC BKR (YCAL0043 - 0253)



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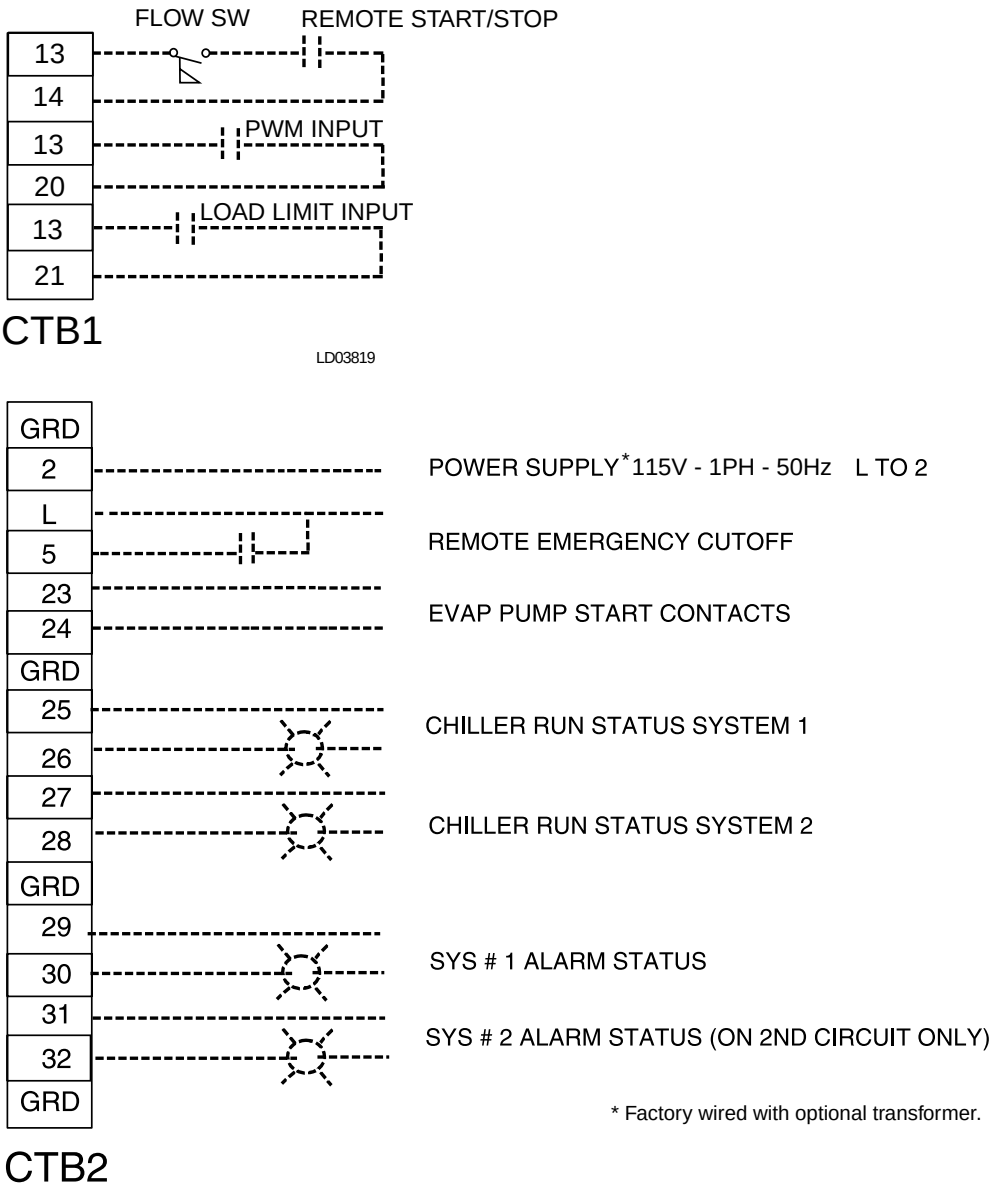
Electrical Notes and Legend located on Page 10.

FIG. 3 – OPTIONAL SINGLE POINT POWER WIRING

CONTROL WIRING



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The unit evaporator heater uses 115VAC. Disconnecting 115VAC power from the unit, at or below freezing temperatures, can result in damage to the evaporator and unit as a result of the chilled liquid freezing.

FIG. 4 – CONTROL WIRING

ELECTRICAL NOTES

NOTES:

1. Minimum Circuit Ampacity (MCA) is based on 125% of the rated load amps for the largest motor plus 100% of the rated load amps for all other loads included in the circuit, per N.E.C. Article 430-24. If the Factory Mounted Control Transformer is provided, add the following to the system MCA values in the electrical tables for the system supplying power to the optional transformer. -50, add 1.75 amps.
2. The minimum recommended disconnect switch is based on 115% of the rated load amps for all loads included in the circuit. Local codes must be complied with.
3. Minimum fuse size is based upon 150% of the rated load amps for the largest motor plus 100% of the rated load amps for all other loads included in the circuit to avoid nuisance trips at start-up due to lock rotor amps. It is not recommended in applications where brown outs, frequent starting and stopping of the unit, and/or operation at ambient temperatures in excess of 95°F is anticipated.
4. Maximum fuse size is based upon 225% of the rated load amps for the largest motor plus 100% of the rated load amps for all other loads included in the circuit, per N.E.C. Article 440-22.
5. Circuit breakers must be U.L. listed and CSA certified and maximum size is based on 225% of the rated load amps for the largest motor plus 100% of the rated load amps for all other loads included in the circuit. Exception: YCA0043 and YCAL0057 must have the optional factory overloads installed to use a standard circuit breaker. Otherwise, an HACR-type circuit breakers must be used. Maximum HACR circuit breaker rating is based on 225% of the rated load amps for the largest motor plus 100% of the rated load amps for all other loads included in the circuit.
6. The “INCOMING WIRE RANGE” is the minimum and maximum wire size that can be accommodated by the unit wiring lugs. The (2) preceding the wire range indicates the number of termination points available per phase of the wire range specified. Actual wire size and number of wires per phase must be determined based on the National Electrical Code, using copper connectors only. Field wiring must also comply with local codes.
7. A ground lug is provided for each compressor system to accommodate a field grounding conductor per N.E.C. Table 250-95. A control circuit grounding lug is also supplied.
8. The supplied disconnect is a “Disconnecting Means” as defined in the N.E.C. 100, and is intended for isolating the unit for the available power supply to perform maintenance and troubleshooting. This disconnect is not intended to be a Load Break Device.
9. Field Wiring by others which complies to the National Electrical Code and Local Codes.

LEGEND	
ACR-LINE	ACROSS THE LINE START
C.B.	CIRCUIT BREAKER
D.E.	DUAL ELEMENT FUSE
DISC SW	DISCONNECT SWITCH
FACT MOUNT CB	FACTORY MOUNTED CIRCUIT BREAKER
FLA	FULL LOAD AMPS
HZ	HERTZ
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MIN NF	MINIMUM NON FUSED
RLA	RATED LOAD AMPS
S.P. WIRE	SINGLE POINT WIRING
UNIT MTD SERV SW	UNIT MOUNTED SERVICE (NON-FUSED DISCONNECT SWITCH)
LRA	LOCKED ROTOR AMPS

VOLTAGE CODE
-50 = 380-415/3/50

LEGEND: ———— Factory Supplied

— — — — Supplied by Others

ELECTRICAL DATA

TABLE 1 – OPTIONAL FIELD MICROPANEL POWER SUPPLY

UNIT VOLTAGE	UNIT VOLTAGE	CONTROL POWER	MCA	OVER CURRENT PROTECTION, SEE NOTE B		NF DISC SW
			NOTE A	MIN	MAX	
MODELS w/o CONTROL TRANS		115-1-50	15A	10A	15A	30 A / 380-415V
MODELS w/ CONTROL TRANS	-50	380 - 415/1/50	15A	10A	15A	30 A / 380-415V

A. Minimum #14 AWG, 75°C, Copper Recommended
B. Minimum and Maximum Over Current Protection, Dual Element Fuse or Circuit Breaker

3

It is possible that multiple sources of power can be supplying the unit power panel. To prevent serious injury or death, the technician should verify that no lethal voltages are present inside the panel after disconnecting power, prior to working on equipment.

The unit evaporator heater uses 115VAC. Disconnecting 115VAC power from the unit, at or below freezing temperatures, can result in damage to the evaporator and unit as a result of the chilled liquid freezing.

STANDARD POWER CONNECTIONS

(SINGLE POINT ON YCAL0043 - 0107 MODELS; DUAL POINT ON YCAL0117 - 0253 MODELS)

TABLE 2 – STANDARD POWER CONNECTIONS

SYSTEM #1 FIELD SUPPLIED WIRING										SYSTEM #1 COMPRESSOR & FAN							
MODEL YCAL	VOLT	HZ	MCA	MIN N/F DISC SW	D.E. FUSE		CKT. BKR.		INCOMING WIRE RANGE	COMPR. #1		COMPR. #2		COMPR. #3		FANS	
					MIN	MAX	MIN	MAX		RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA (EA)
0043SC	380/415	50	34	60	40	40	40	40	# 10 - # 6	11.5	98	11.5	98	—	—	2	3.8
0057SC	380/415	50	45	60	50	60	50	60	# 8 - # 4	16.3	130	16.3	130	—	—	2	3.8
0073SC	380/415	50	57	60	70	70	70	70	# 6 - # 2	21.7	170	21.7	170	—	—	2	3.8
0087SC	380/415	50	62	100	70	80	70	80	# 6 - # 2	24.1	175	24.1	175	—	—	2	3.8
0107SC	380/415	50	81	100	90	100	90	100	# 4 - # 1	22.6	175	22.6	175	22.6	175	2	3.8
0117SC	380/415	50	41	60	45	50	45	50	# 8 - # 4	14.5	120	14.5	120	—	—	2	3.8
0133SC	380/415	50	58	60	70	70	70	70	# 6 - # 2	22.1	170	22.1	170	—	—	2	3.8
0147SC	380/415	50	58	60	70	70	70	70	# 6 - # 2	22.1	170	22.1	170	—	—	2	3.8
0157SC	380/415	50	65	100	80	80	80	80	# 4 - # 1	25.3	175	25.3	175	—	—	2	3.8
0173SC	380/415	50	63	100	70	80	70	80	# 6 - # 2	24.2	175	24.2	175	—	—	2	3.8
0197SC	380/415	50	83	100	90	100	90	100	# 4 - # 1	23.1	170	23.1	170	23.1	170	2	3.8
0217SC	380/415	50	82	100	90	100	90	100	# 4 - # 1	22.9	170	22.9	170	22.9	170	2	3.8
0237SC	380/415	50	92	100	100	110	100	110	# 2 - 1/0	26.0	175	26.0	175	26.0	175	2	3.8
0253SC	380/415	50	92	100	100	110	100	110	# 2 - 1/0	25.8	175	25.8	175	25.8	175	2	3.8

See Notes on page 10.

UNIT VOLTAGE	UNIT VOLTAGE	CONTROL POWER	MCA	OVER CURRENT PROTECTION, SEE NOTE B		NF DISC SW
			NOTE A	MIN	MAX	
MODELS w/o CONTROL TRANS		115-1-60/50	15A	10A	15A	30 A / 240V
MODELS w/ CONTROL TRANS	-50	380/415-1-50	15A	10A	15A	30 A / 480V

A. Minimum #14 AWG, 75°C, Copper Recommended

B. Minimum and Maximum Over Current Protection, Dual Element Fuse or Circuit Breaker

STANDARD POWER CONNECTIONS

(SINGLE POINT ON YCAL0043 - 0107 MODELS; DUAL POINT ON YCAL0117 - 0253 MODELS)

SYSTEM #2 FIELD SUPPLIED WIRING							SYSTEM #2 COMPRESSOR & FAN							
MCA	MIN N/F	D.E. FUSE		CKT. BRK.		INCOMING WIRE	COMPR. #1		COMPR. #2		COMPR. #3		FANS	
	DISC SW	MIN	MAX	MIN	MAX	RANGE	RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA (EA)
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
41	60	45	50	45	50	# 8 - # 4	14.5	120	14.5	120	—	—	2	3.8
41	60	45	50	45	50	# 8 - # 4	14.5	120	14.5	120	—	—	2	3.8
58	60	70	70	70	70	# 6 - # 2	22.1	170	22.1	170	—	—	2	3.8
58	60	70	70	70	70	# 6 - # 2	21.8	170	21.8	170	—	—	2	3.8
63	100	70	80	70	80	# 6 - # 2	24.2	175	24.2	175	—	—	2	3.8
57	100	70	70	70	70	# 6 - # 2	15.1	120	15.1	120	15.1	120	2	3.8
82	100	90	100	90	100	# 4 - # 1	22.9	170	22.9	170	22.9	170	2	3.8
80	100	90	100	90	100	# 4 - # 1	22.3	170	22.3	170	22.3	170	2	3.8
92	100	100	110	100	110	# 2 - 1/0	25.8	175	25.8	175	25.8	175	2	3.8

SINGLE POINT POWER CONNECTIONS

(SINGLE POINT STANDARD ON YCAL0043 - 0107 MODELS; OPTIONAL ON YCAL0117 - 0253.
DISCONNECT AND BREAKERS OPTIONAL ON ALL MODELS)

TABLE 3 – SINGLE POINT POWER

SINGLE POINT FIELD SUPPLIED WIRING											
MODEL YCAL	VOLT	HZ	MCA	MIN N/F DISC SW	D.E. FUSE		CKT. BKR.		INCOMING WIRE RANGE		
									FACTORY SUPPLIED OPTIONAL		
					MIN	MAX	MIN	MAX	SINGLE POINT	DISCONNECT	BREAKER
0043SC	380/415	50	34	60	40	40	40	40	# 10 - # 6	# 10 - # 6	# 10 - # 6
0057SC	380/415	50	45	60	50	60	50	60	# 8 - # 4	# 8 - # 4	# 8 - # 4
0073SC	380/415	50	57	60	70	70	70	70	# 6 - # 2	# 6 - # 2	# 6 - # 2
0087SC	380/415	50	62	100	70	80	70	80	# 6 - # 2	# 6 - # 2	# 6 - # 2
0107SC	380/415	50	81	100	90	100	90	100	# 4 - # 1	# 4 - # 1	# 4 - # 1
0117SC	380/415	50	77	100	90	90	90	90	# 4 - # 1	# 4 - # 1	# 4 - # 1
0133SC	380/415	50	95	150	100	100	110	110	# 2 - 1/0	# 2 - 1/0	# 2 - 1/0
0147SC	380/415	50	110	150	125	125	125	125	# 2 - 1/0	# 2 - 1/0	# 2 - 1/0
0157SC	380/415	50	116	150	125	125	125	125	# 1 - 2/0	# 1 - 2/0	# 1 - 2/0
0173SC	380/415	50	119	150	125	125	125	125	# 1 - 2/0	# 1 - 2/0	# 1 - 2/0
0197SC	380/415	50	136	150	150	150	150	150	1/0 - 3/0	1/0 - 3/0	1/0 - 3/0
0217SC	380/415	50	159	200	175	175	175	175	2/0 - 4/0	2/0 - 4/0	2/0 - 4/0
0237SC	380/415	50	167	200	175	175	175	175	2/0 - 4/0	2/0 - 4/0	2/0 - 4/0
0253SC	380/415	50	177	200	200	200	200	200	3/0 - 250	3/0 - 250	3/0 - 250

See Notes on page 10.

SINGLE POINT POWER CONNECTIONS

(SINGLE POINT STANDARD ON YCAL0043 - 0107 MODELS; OPTIONAL ON YCAL0117 - 0253.
DISCONNECT AND BREAKERS OPTIONAL ON ALL MODELS)

SYSTEM #1 COMPRESSOR & FAN								SYSTEM #2 COMPRESSOR & FAN							
COMPR. #1		COMPR. #2		COMPR. #3		FANS		COMPR. #1		COMPR. #2		COMPR. #3		FANS	
RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA (EA)	RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA (EA)
11.5	98	11.5	98	—	—	2	3.8	—	—	—	—	—	—	—	—
16.3	130	16.3	130	—	—	2	3.8	—	—	—	—	—	—	—	—
21.7	170	21.7	170	—	—	2	3.8	—	—	—	—	—	—	—	—
24.1	175	24.1	175	—	—	2	3.8	—	—	—	—	—	—	—	—
22.6	175	22.6	175	22.6	175	2	3.8	—	—	—	—	—	—	—	—
14.5	120	14.5	120	—	—	2	3.8	14.5	120	14.5	120	—	—	2	3.8
22.1	170	22.1	170	—	—	2	3.8	14.5	120	14.5	120	—	—	2	3.8
22.1	170	22.1	170	—	—	2	3.8	22.1	170	22.1	170	—	—	2	3.8
25.3	175	25.3	175	—	—	2	3.8	21.8	170	21.8	170	—	—	2	3.8
24.2	175	24.2	175	—	—	2	3.8	24.2	175	24.2	175	—	—	2	3.8
23.1	170	23.1	170	23.1	170	2	3.8	15.1	120	15.1	120	15.1	120	2	3.8
22.9	170	22.9	170	22.9	170	2	3.8	22.9	170	22.9	170	22.9	170	2	3.8
26.0	175	26.0	175	26.0	175	2	3.8	22.3	170	22.3	170	22.3	170	2	3.8
25.8	175	25.8	175	25.8	175	2	3.8	25.8	175	25.8	175	25.8	175	2	3.8

ELEMENTARY DIAGRAM
YCAL0043SC – YCAL0087SC

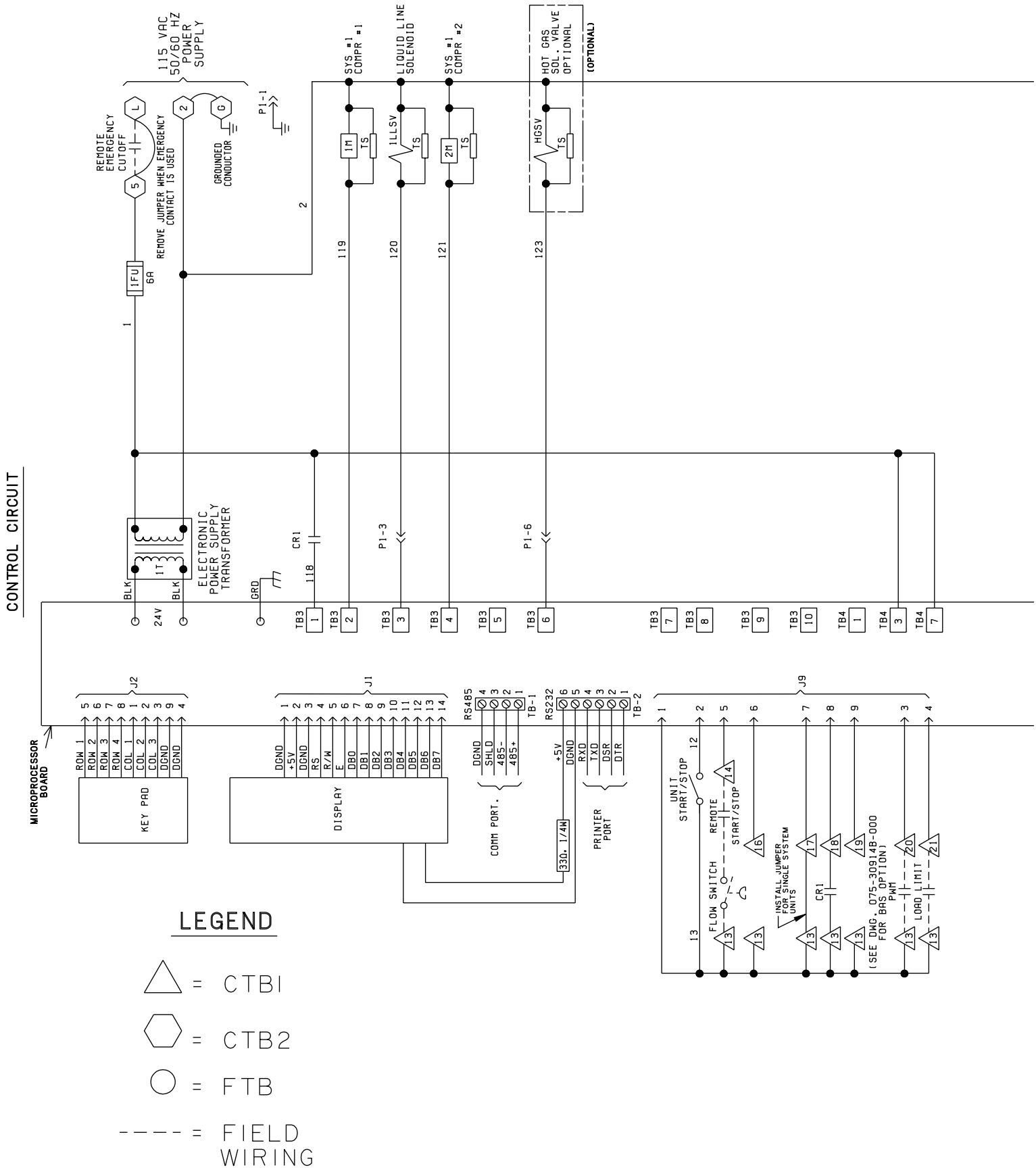

FIG. 5 – ELEMENTARY DIAGRAM

ELEMENTARY DIAGRAM
YCAL0043SC – YCAL0087SC

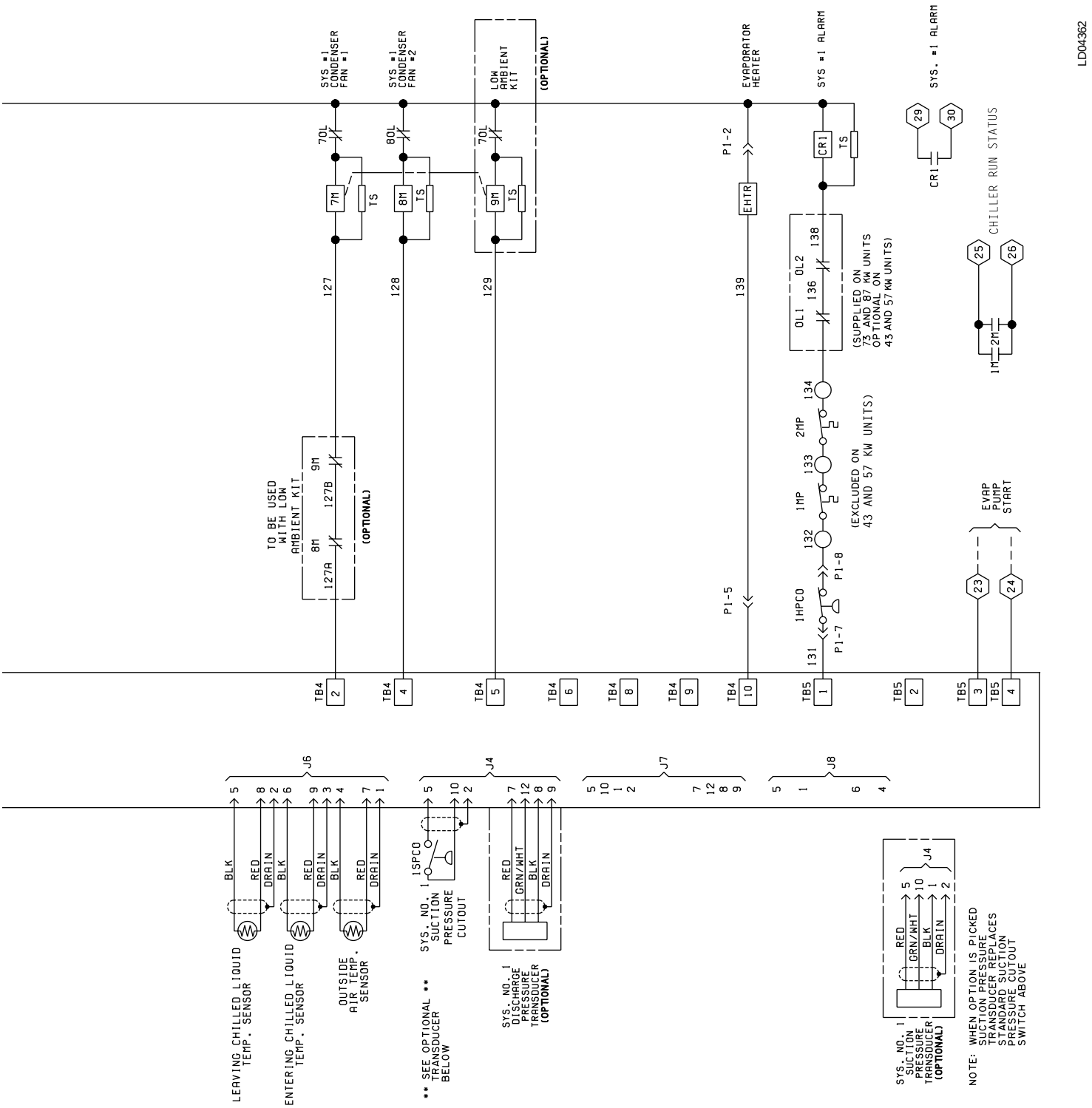

FIG. 5 – ELEMENTARY DIAGRAM (Cont'd)

ELEMENTARY DIAGRAM
YCAL0043SC – YCAL0087SC

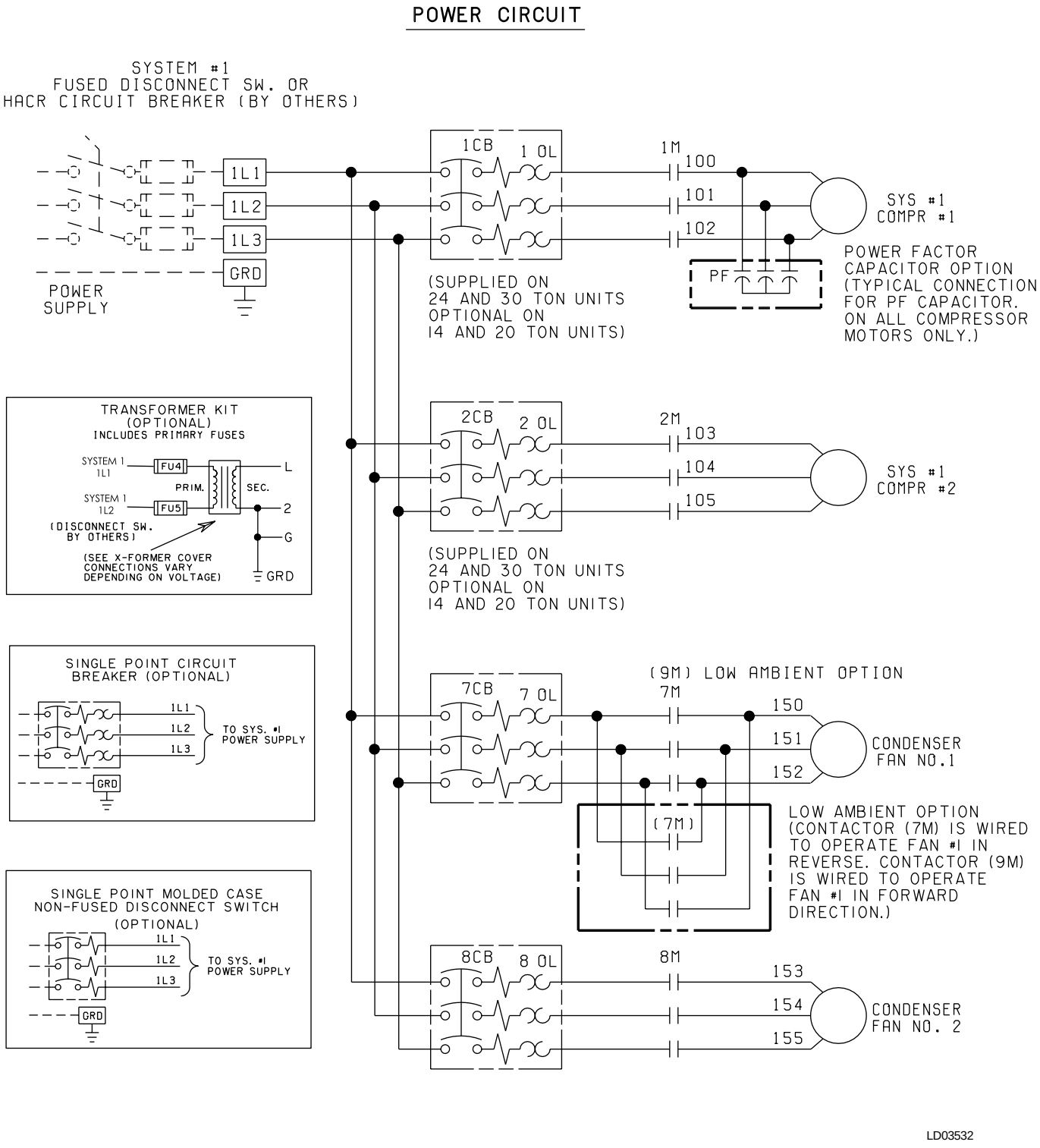

FIG. 6 – ELEMENTARY DIAGRAM

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ELEMENTARY DIAGRAM
YCAL0107SC

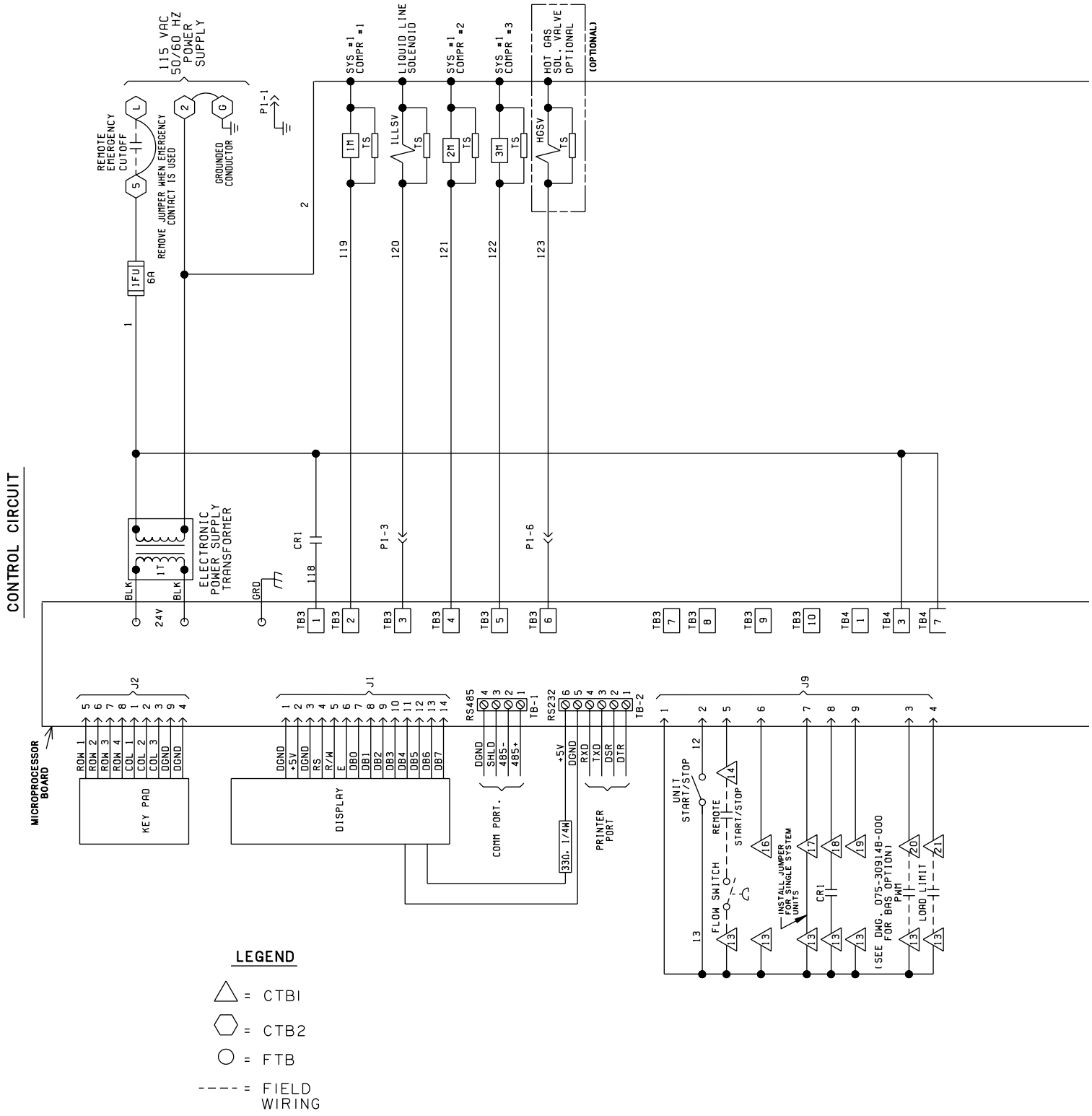

FIG. 7 – ELEMENTARY DIAGRAM

ELEMENTARY DIAGRAM
YCAL0107SC

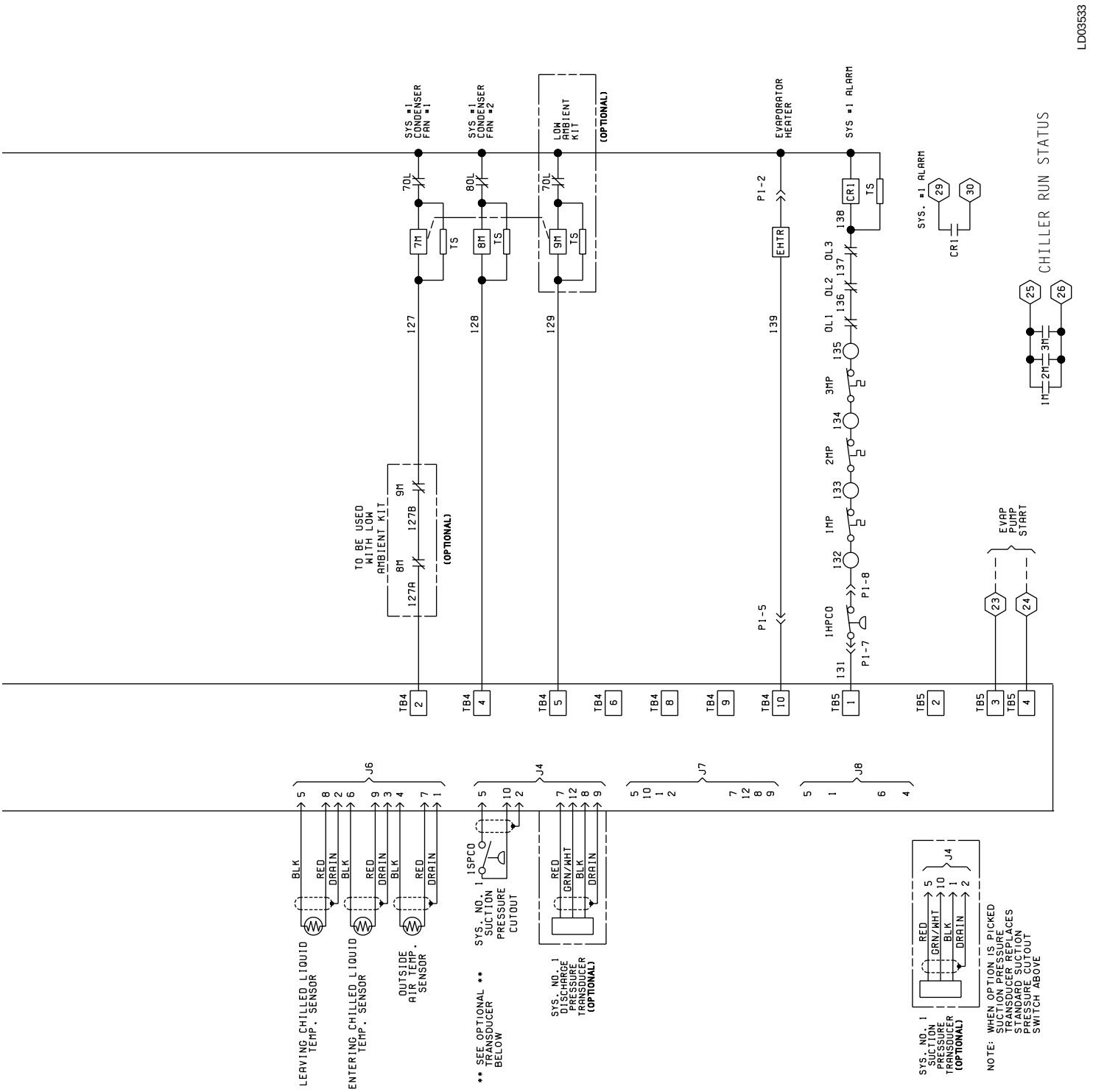

FIG. 7 – ELEMENTARY DIAGRAM (Cont'd)

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ELEMENTARY DIAGRAM
YCAL0107SC

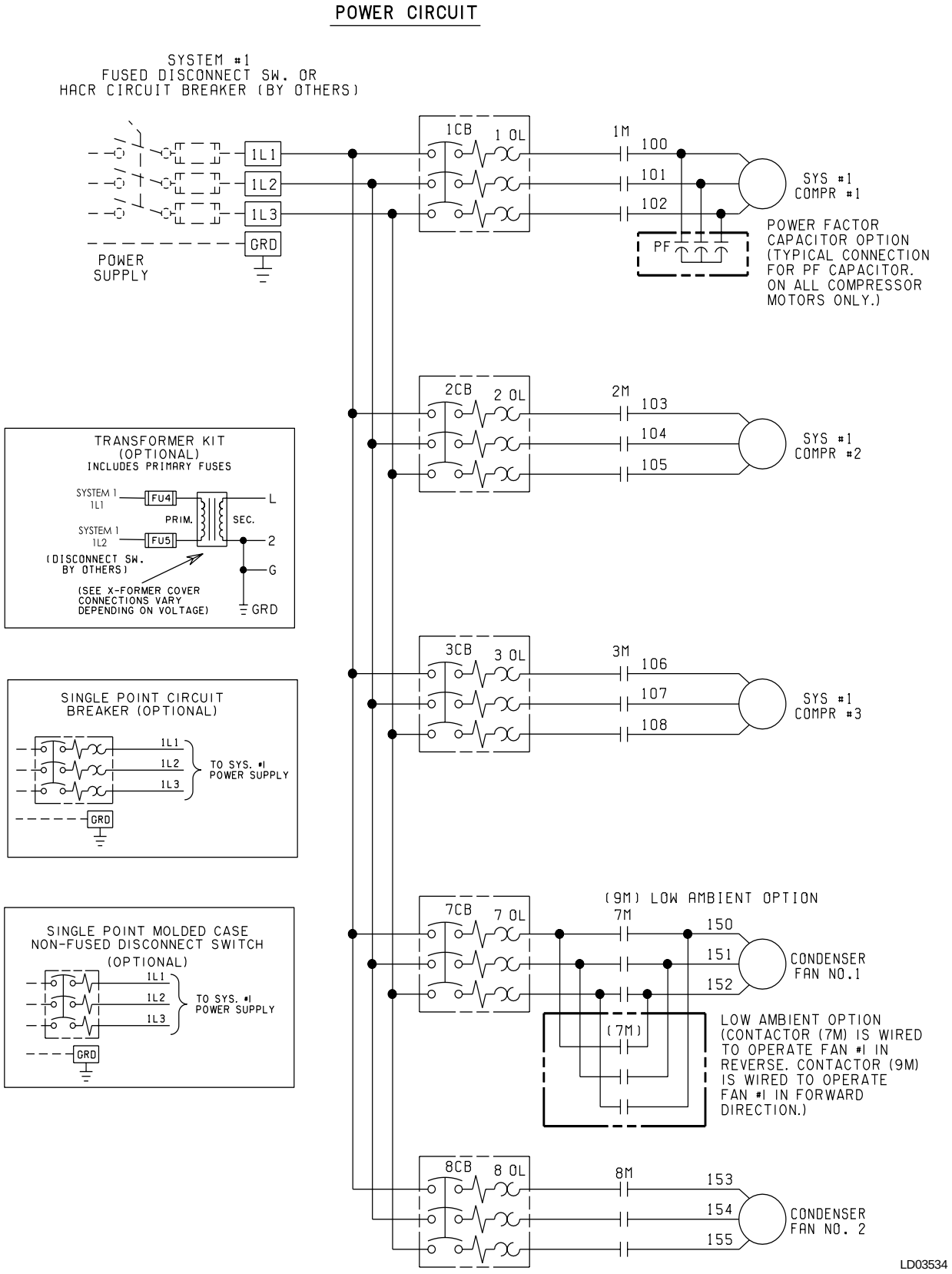

FIG. 8 – ELEMENTARY DIAGRAM

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ELEMENTARY DIAGRAM
YCAL0117SC – YCAL0173SC

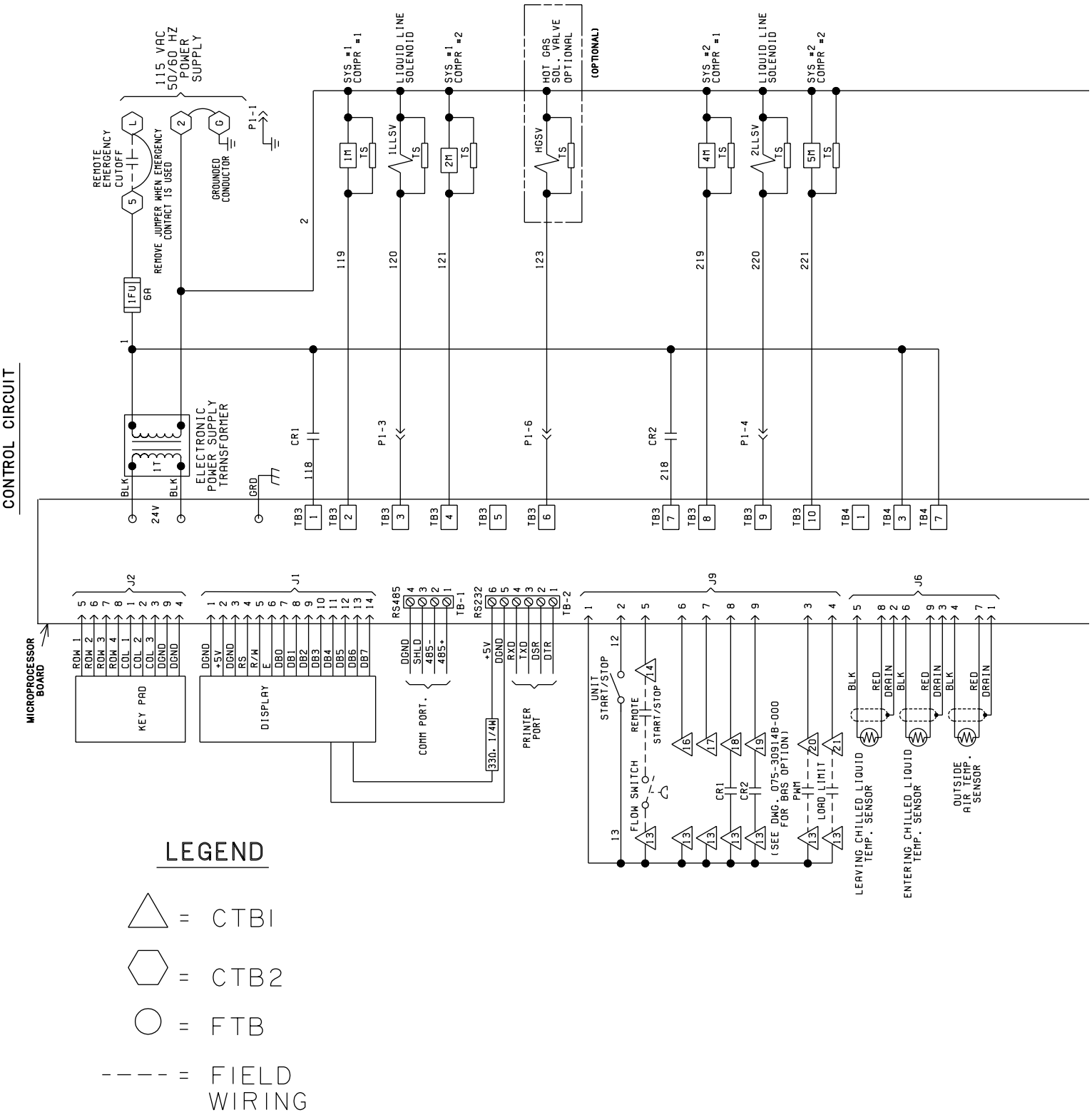

FIG. 9 – ELEMENTARY DIAGRAM

ELEMENTARY DIAGRAM
YCAL0117SC – YCAL0173SC

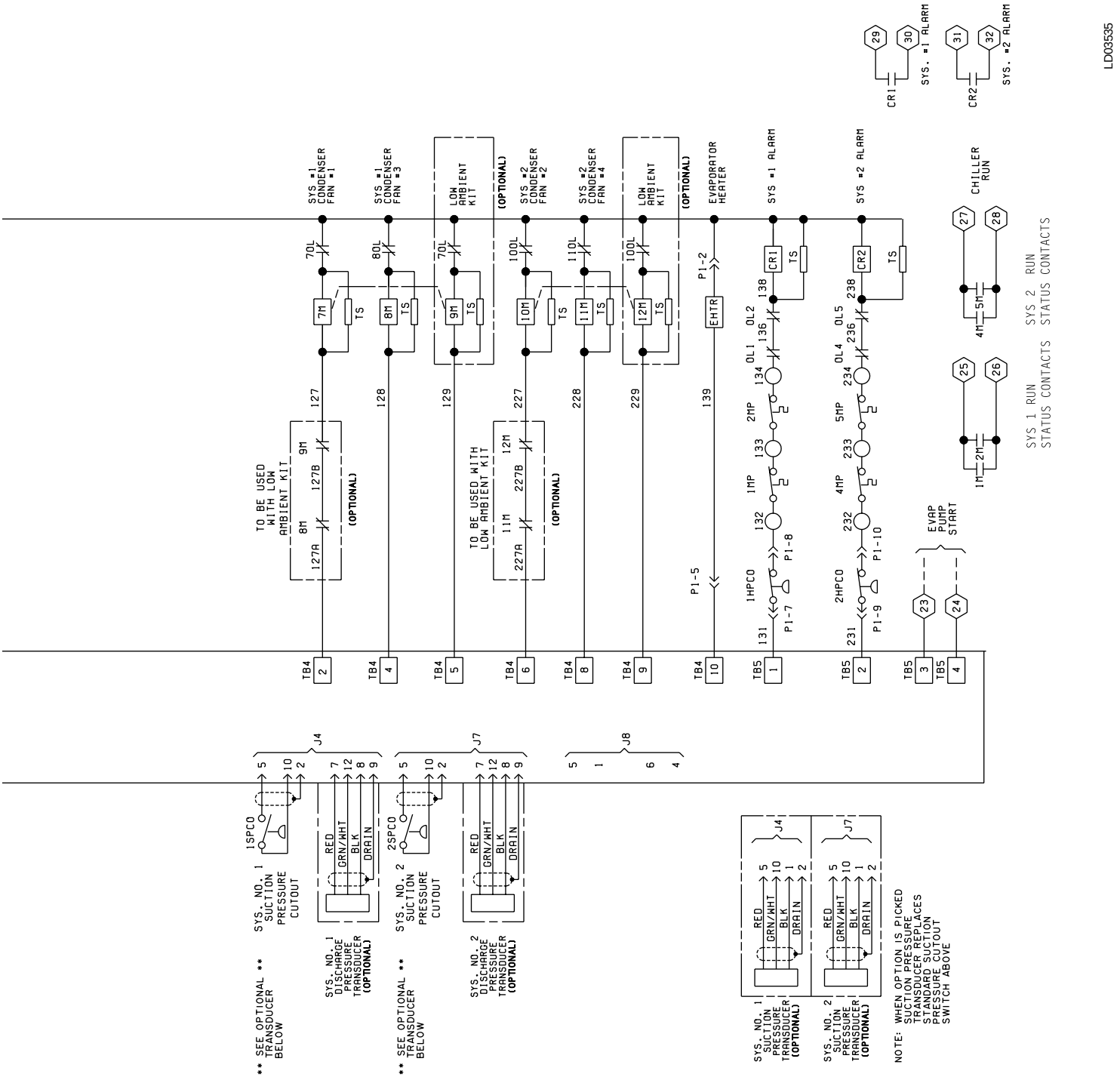

FIG. 9 – ELEMENTARY DIAGRAM (Cont'd)

4

ELEMENTARY DIAGRAM
YCAL0117SC – YCAL0173SC

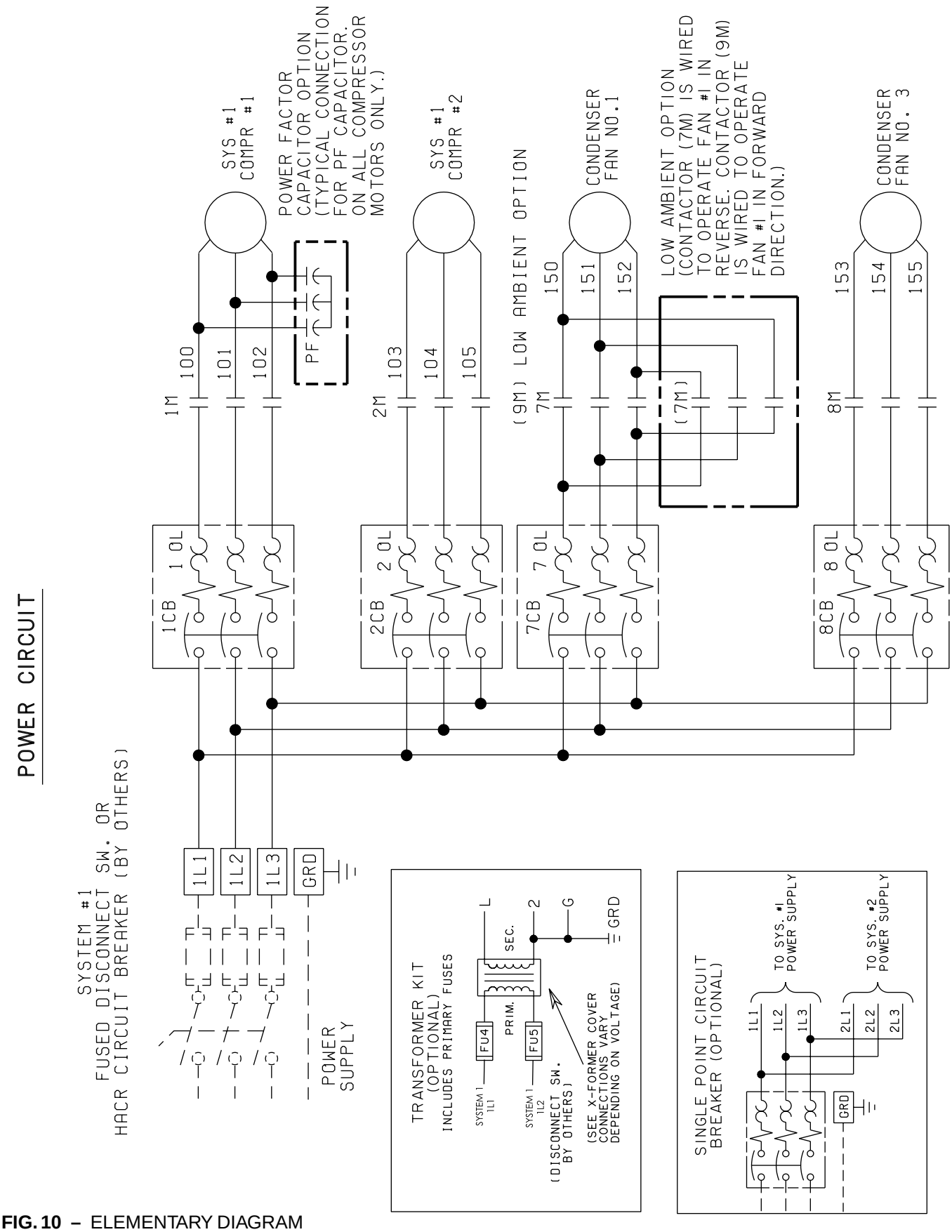

FIG. 10 – ELEMENTARY DIAGRAM

ELEMENTARY DIAGRAM
YCAL0117SC – YCAL0173SC

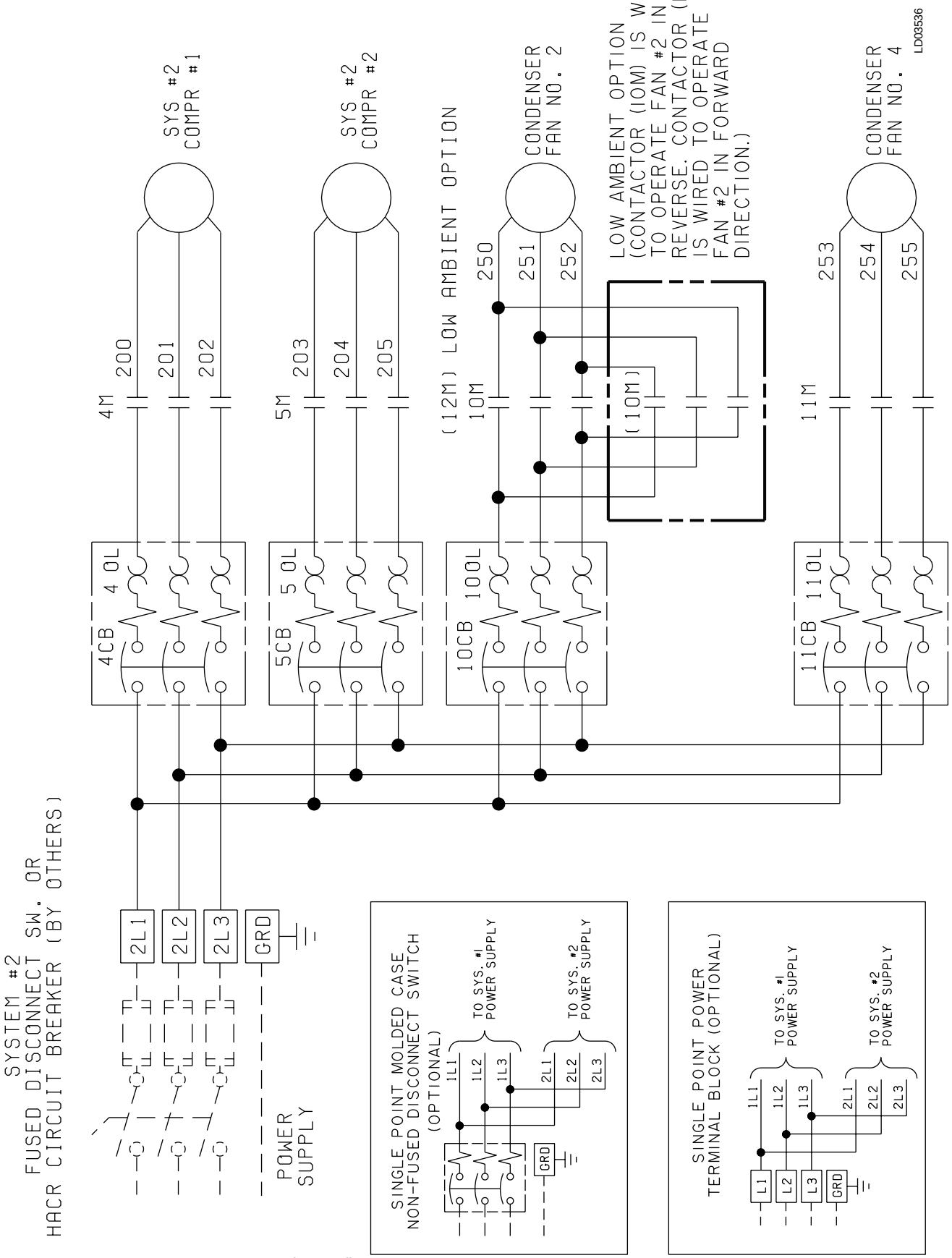

FIG. 10 – ELEMENTARY DIAGRAM (Cont'd)

ELEMENTARY DIAGRAM
YCAL0197SC – YCAL0253SC

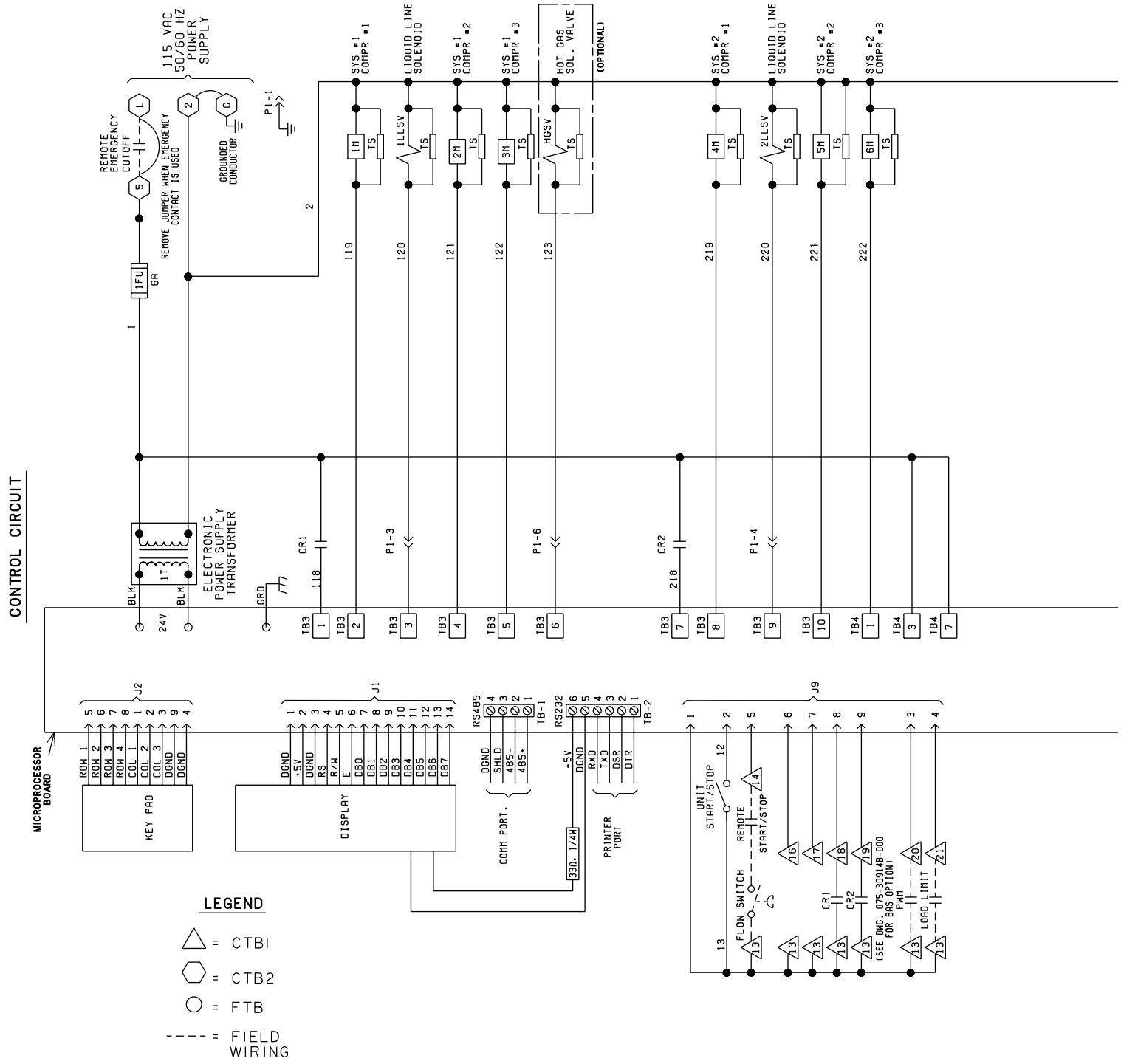

FIG. 11 – ELEMENTARY DIAGRAM

ELEMENTARY DIAGRAM
YCAL0197SC – YCAL0253SC

LD03537

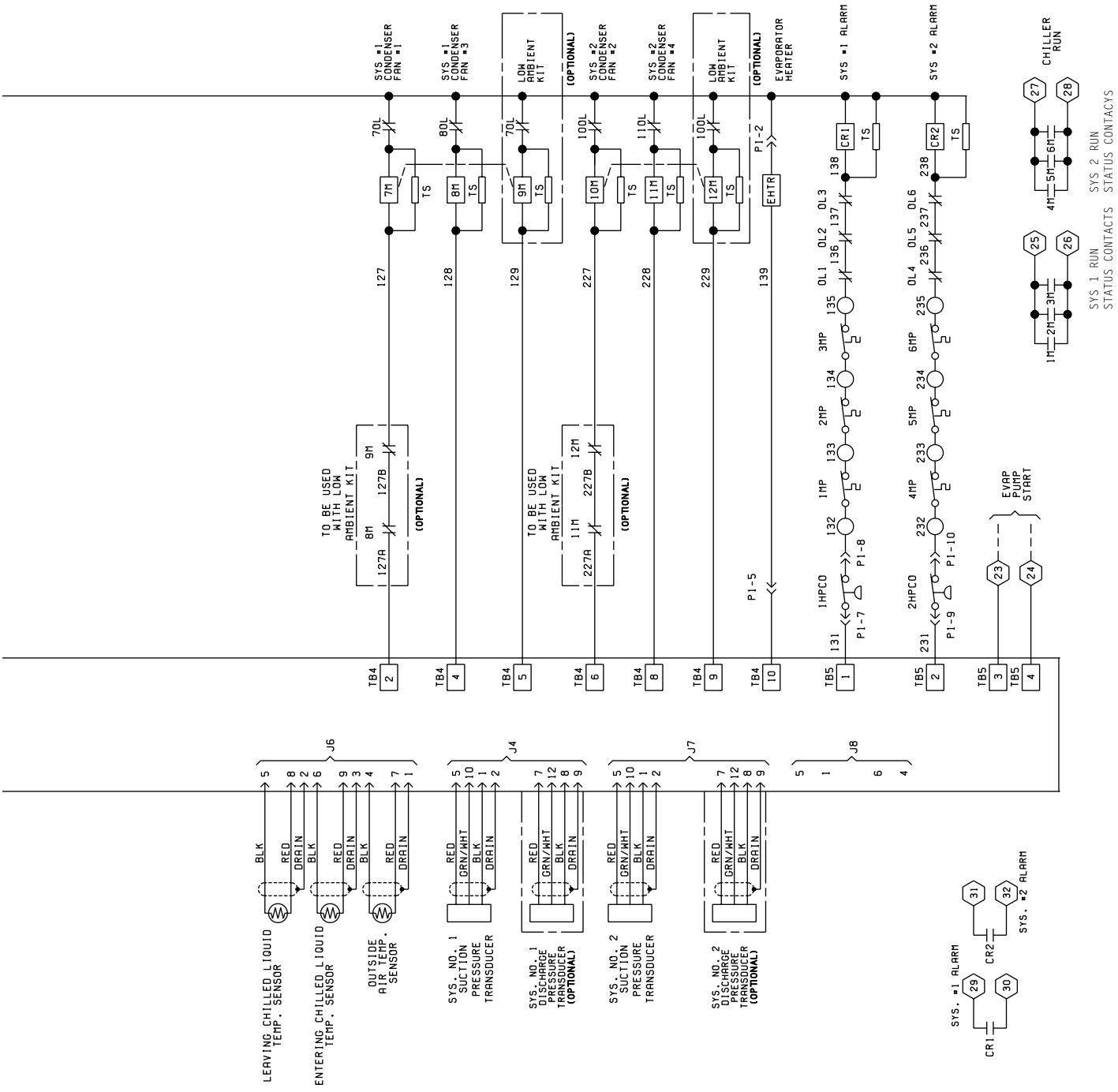

FIG. 11 – ELEMENTARY DIAGRAM (Cont'd)

ELEMENTARY DIAGRAM
YCAL0197SC – YCAL0253SC

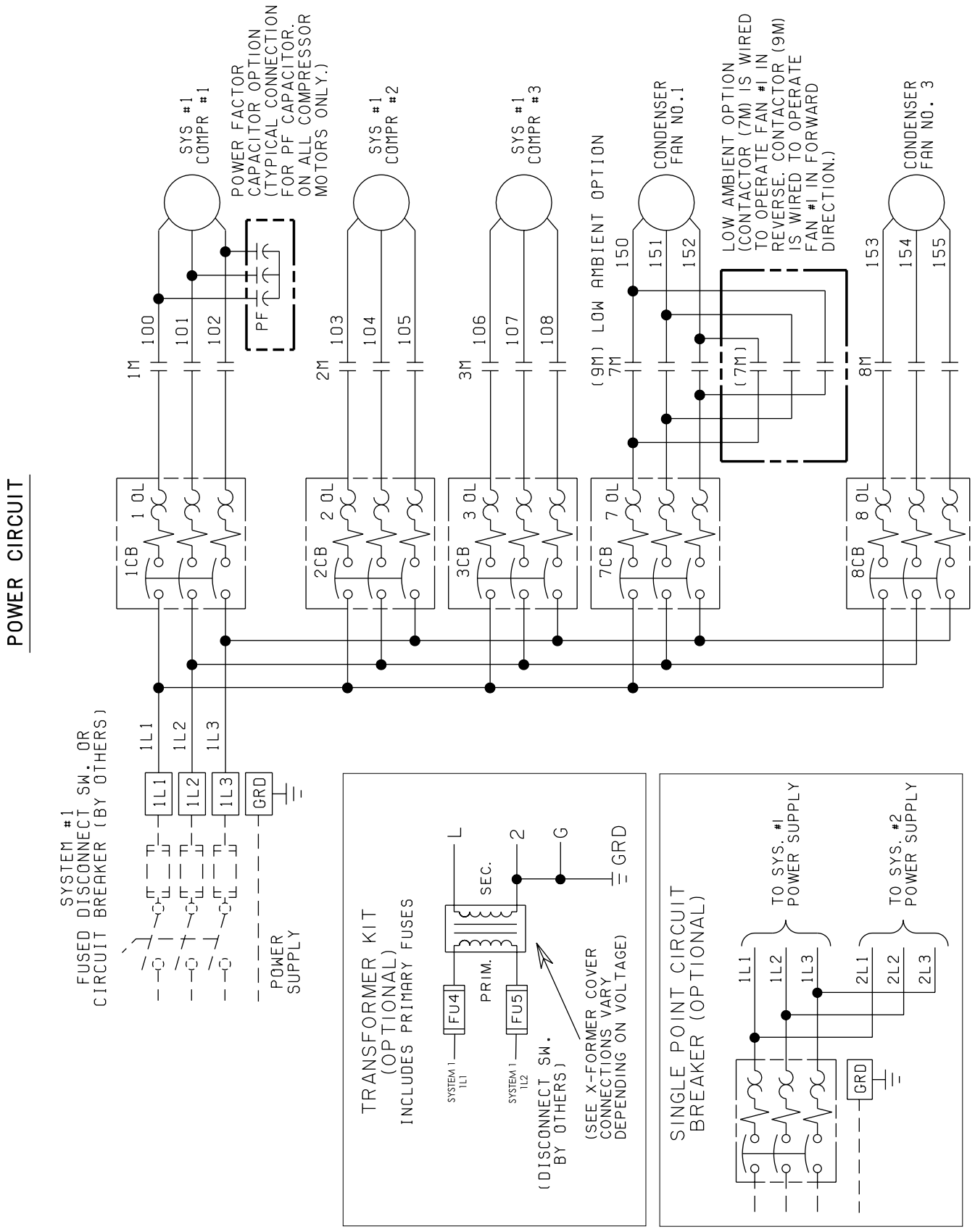

FIG. 12 – ELEMENTARY DIAGRAM

ELEMENTARY DIAGRAM
YCAL0197SC – YCAL0253SC

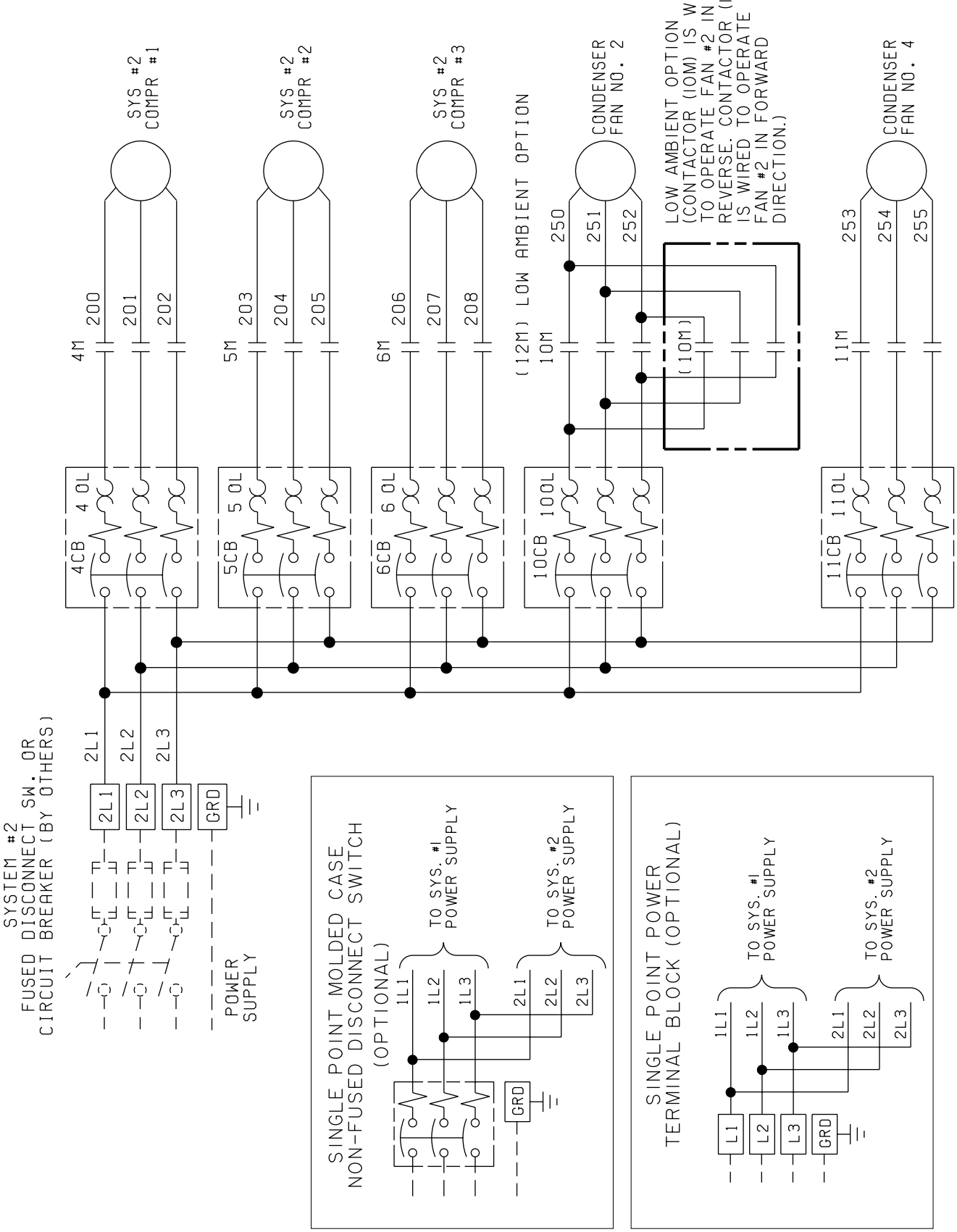

FIG. 12 – ELEMENTARY DIAGRAM (Cont'd)

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Form 150.62-W2 (899)
Supersedes: Nothing