YORK®	AIR-COOLED LIQUID CHILLERS HERMETIC SCROLL	
WIRING DIAGRAM	New Release	Form 150.62-W7 (505)

YCAL0043E_ - YCAL0377E_
R-22 & HFC-407C
STYLE C
(50 Hz)

29224(R)A

Metric Conversions

380-415-3-50
MODEL ONLY

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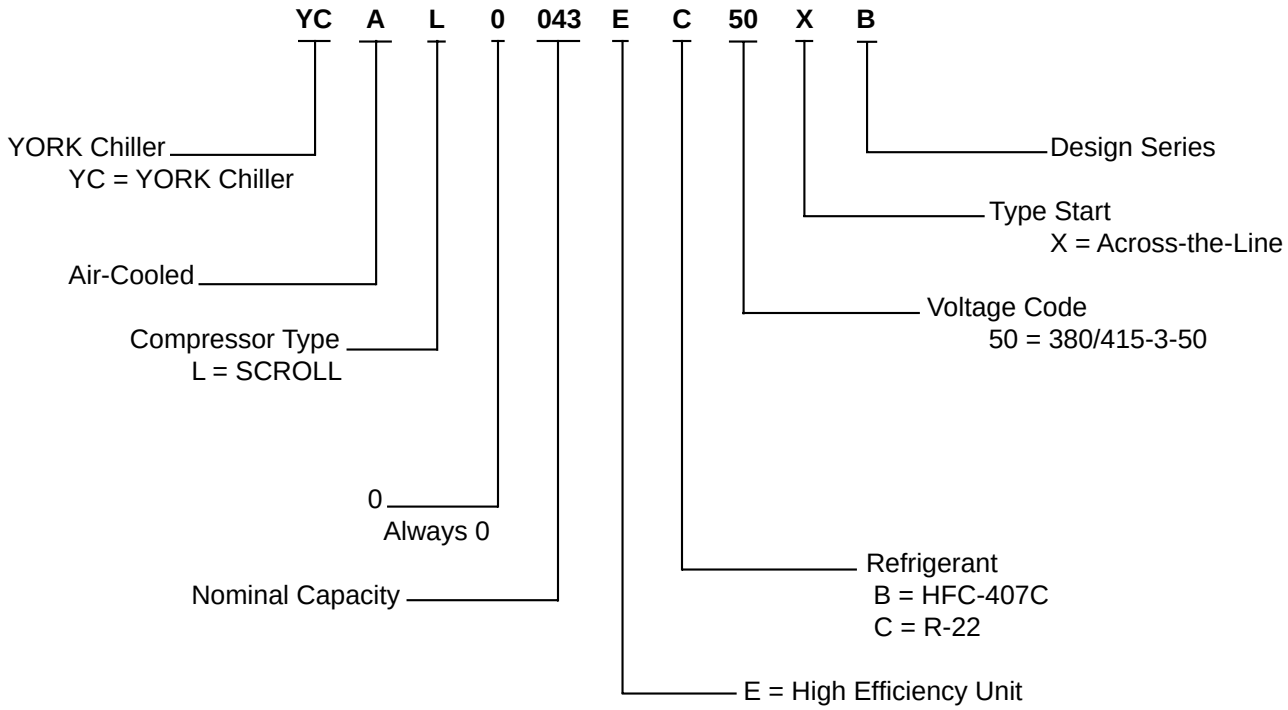
TYPICAL NOMENCLATURE



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 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.

ELECTRICAL NOTES AND LEGEND

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 430.33. 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, per N.E.C. Article 440.12 (A) 1.
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: YCAL0043 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 250.122. A control circuit grounding lug is also supplied.
8. The supplied disconnect is a “Disconnecting Means” as defined in the N.E.C. 100.I, 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

LEGEND:

Field Wiring — — — —

Factory Wiring ————

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ELECTRICAL DATA

SINGLE-POINT POWER SUPPLY CONNECTIONS – YCAL0043E_ - YCAL0253E_

(One Field Provided Power Supply to the chiller. Field connections to Factory Provided Power Terminal Block (standard), Non-Fused Disconnect Switch (optional) or Circuit Breaker (optional).)

MODEL YCAL	VOLT	HZ	SINGLE POINT FIELD SUPPLIED WIRING								
			MCA[1]	MIN N/F DISC SW[2]	D.E. FUSE		CKT. BKR.[5]		INCOMING (LUGS) WIRE RANGE[6] FACTORY SUPPLIED OPTIONAL		
					MIN[3]	MAX[4]	MIN	MAX	SINGLE POINT	DISCONNECT	BREAKER
0043	380/415	50	35	60	40	45	40	45	# 10 - # 1	# 14 - 2	# 14 - 2
0057	380/415	50	46	60	50	60	50	60	# 10 - # 1	# 14 - 2	# 14 - 2
0073	380/415	50	53	60	60	70	60	70	# 10 - # 1	# 14 - 2	# 14 - 2
0087	380/415	50	62	100	70	70	70	70	# 10 - # 1	# 14 - 1/0	# 14 - 1/0
0107	380/415	50	73	100	80	90	80	90	# 10 - # 1	# 14 - 1/0	# 14 - 1/0
0117	380/415	50	87	100	100	100	100	100	# 10 - # 1	# 14 - 1/0	# 14 - 1/0
0133	380/415	50	94	150	100	110	100	110	# 10 - # 1	# 2 - 4/0	# 14 - 1/0
0147	380/415	50	101	150	110	110	110	110	# 10 - # 1	# 2 - 4/0	# 2 - 4/0
0157	380/415	50	110	150	125	125	125	125	# 10 - # 1	# 2 - 4/0	# 2 - 4/0
0173	380/415	50	118	150	125	125	125	125	# 10 - 3/0	# 2 - 4/0	# 2 - 4/0
0197	380/415	50	131	150	150	150	150	150	# 10 - 3/0	# 2 - 4/0	# 2 - 4/0
0217	380/415	50	141	200	150	150	150	150	# 10 - 3/0	# 6 - 350	# 2 - 4/0
0237	380/415	50	154	200	175	175	175	175	# 10 - 3/0	# 6 - 350	# 4 - 300
0253	380/415	50	166	200	175	175	175	175	# 10 - 3/0	# 6 - 350	# 4 - 300

See Notes and Legend on page 4

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 120VAC. Disconnecting 120VAC 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.

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	380/415-3-50	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

SINGLE-POINT POWER SUPPLY CONNECTIONS – YCAL0043E_ - YCAL0253E_

(One Field Provided Power Supply to the chiller. Field connections to Factory Provided Power Terminal Block (standard), Non-Fused Disconnect Switch (optional) or Circuit Breaker (optional).)

SYSTEM #1 COMPRESSOR & FAN								SYSTEM #2 FIELD SUPPLIED WIRING							
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)
12.0	99	12.0	99	—	—	2	4.0	—	—	—	—	—	—	—	—
16.6	127	16.6	127	—	—	2	4.0	—	—	—	—	—	—	—	—
19.9	167	19.9	167	—	—	2	4.0	—	—	—	—	—	—	—	—
23.9	198	23.9	198	—	—	2	4.0	—	—	—	—	—	—	—	—
19.9	167	19.9	167	19.9	167	2	4.0	—	—	—	—	—	—	—	—
16.6	127	16.6	127	—	—	2	4.0	16.6	127	16.6	127	—	—	2	4.0
19.9	167	19.9	167	—	—	2	4.0	16.6	127	16.6	127	—	—	2	4.0
19.9	167	19.9	167	—	—	2	4.0	19.9	167	19.9	167	—	—	2	4.0
23.9	198	23.9	198	—	—	2	4.0	19.9	167	19.9	167	—	—	2	4.0
23.9	198	23.9	198	—	—	2	4.0	23.9	198	23.9	198	—	—	2	4.0
19.9	167	19.9	167	19.9	167	2	4.0	16.6	127	16.6	127	16.6	127	2	4.0
19.9	167	19.9	167	19.9	167	2	4.0	19.9	167	19.9	167	19.9	167	2	4.0
23.9	198	23.9	198	23.9	198	2	4.0	19.9	167	19.9	167	19.9	167	2	4.0
23.9	198	23.9	198	23.9	198	2	4.0	23.9	198	23.9	198	23.9	198	2	4.0

ELECTRICAL DATA – SINGLE POINT POWER SUPPLY CONNECTIONS – YCAL0043E_ - YCAL0107E_
DUAL POINT POWER SUPPLY CONNECTIONS – YCAL0117E_ - YCAL0253E

(One ore Two Field Provided Power Supply Circuits to the chiller. Field connections to Factory Provided Terminal Blocks per system)

MODEL YCAL	VOLT	HZ	SYSTEM #1 FIELD SUPPLIED WIRING							SYSTEM #1 COMPRESSOR & FAN							
			MCA[1]	MIN N/F DISC SW[2]	D.E. FUSE		CKT. BKR.[5]		INCOMING (LUGS) WIRE RANGE[6]	COMPR. #1		COMPR. #2		COMPR. #3		FANS	
					MIN[3]	MAX[4]	MIN	MAX		RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA (EA)
0043	380/415	50	35	60	40	45	40	45	# 10 - # 1	12.0	99	12.0	99	—	—	2	4.0
0057	380/415	50	46	60	50	60	50	60	# 10 - # 1	16.6	127	16.6	127	—	—	2	4.0
0073	380/415	50	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
0087	380/415	50	62	100	70	80	70	80	# 10 - # 1	23.9	198	23.9	198	—	—	2	4.0
0107	380/415	50	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
0117	380/415	50	46	60	50	60	50	60	# 10 - # 1	16.6	127	16.6	127	—	—	2	4.0
0133	380/415	50	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
0147	380/415	50	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
0157	380/415	50	62	100	70	80	70	80	# 10 - # 1	23.9	198	23.9	198	—	—	2	4.0
0173	380/415	50	62	100	70	80	70	80	# 10 - # 1	23.9	198	23.9	198	—	—	2	4.0
0197	380/415	50	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
0217	380/415	50	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
0237	380/415	50	86	100	100	100	100	100	# 10 - # 1	23.9	198	23.9	198	23.9	198	2	4.0
0253	380/415	50	86	100	100	100	100	100	# 10 - # 1	23.9	198	23.9	198	23.9	198	2	4.0

See Notes and Legend on page 4.

ELECTRICAL DATA – SINGLE POINT POWER SUPPLY CONNECTIONS – YCAL0043E_ - YCAL0107E_
DUAL POINT POWER SUPPLY CONNECTIONS – YCAL0117E_ - YCAL0253E

MODEL YCAL	VOLT	HZ	SYSTEM #2 FIELD SUPPLIED WIRING							SYSTEM #2 COMPRESSOR & FAN							
			MCA[1]	MIN N/F DISC SW[2]	D.E. FUSE		CKT. BKR.[5]		INCOMING (LUGS) WIRE RANGE[6]	COMPR. #1		COMPR. #2		COMPR. #3		FANS	
					MIN[3]	MAX[4]	MIN	MAX		RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA (EA)
0043	380/415	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0057	380/415	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0073	380/415	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0087	380/415	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0107	380/415	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0117	380/415	50	46	60	50	60	50	60	# 10 - # 1	16.6	127	16.6	127	—	—	2	4.0
0133	380/415	50	46	60	50	60	50	60	# 10 - # 1	16.6	127	16.6	127	—	—	2	4.0
0147	380/415	50	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
0157	380/415	50	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
0173	380/415	50	62	100	70	80	70	80	# 10 - # 1	23.9	198	23.9	198	—	—	2	4.0
0197	380/415	50	62	100	70	70	70	70	# 10 - # 1	16.6	127	16.6	127	16.6	127	2	4.0
0217	380/415	50	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
0237	380/415	50	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
0253	380/415	50	86	100	100	100	100	100	# 10 - # 1	23.9	198	23.9	198	23.9	198	2	4.0

ELECTRICAL DATA – SINGLE POINT POWER SUPPLY CONNECTIONS – YCAL0287E_ - YCAL0377E_

SINGLE POINT POWER SUPPLY CONNECTIONS WITH INDIVIDUAL SYSTEM CIRCUIT BREAKERS
(One Field Provided Power Supply Circuit to the chiller. Field connections to Factory Provided Teminal Block (optional) or Non-Fused Disconnect Switch (optional). Includes Individual Branch Circuit Protection (Breakers) per electrical system)

MODEL YCAL	VOLT	HZ	SINGLE POINT FIELD SUPPLIED WIRING							
			MCA[1]	MIN N/F DISC SW[2]	D.E. FUSE		CKT. BKR.[5]		INCOMING (LUGS) WIRE RANGE[6]	
					MIN[3]	MAX[4]	MIN	MAX	TERMINAL BLOCK (opt)	NF DISC. SWITCH (opt)
0287	380/415	50	221	250	250	250	250	250	# 6 - 400	# 6 - 350
0317	380/415	50	227	400	250	250	250	250	# 6 - 400	(2) 3/0-500
0347	380/415	50	265	400	300	300	300	300	2/0 - 500	(2) 3/0-500
0377	380/415	50	300	400	300	300	300	300	2/0 - 500	(2) 3/0-500

See Notes and Legend on page 4.

ELECTRICAL DATA – SINGLE POINT POWER SUPPLY CONNECTIONS – YCAL0287E_ - YCAL0377E_

SYSTEM #1 COMPRESSOR & FAN								SYSTEM #2 FIELD SUPPLIED WIRING							
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)
32.6	215	32.6	215	32.6	215	3	3.8	44.2	270	44.2	270	—	—	3	3.8
32.6	215	32.6	215	32.6	215	3	3.8	32.6	215	32.6	215	32.6	215	3	3.8
44.2	270	44.2	270	44.2	270	3	3.8	32.6	215	32.6	215	32.6	215	3	3.8
44.2	270	44.2	270	44.2	270	3	3.8	44.2	270	44.2	270	44.2	270	3	3.8

ELECTRICAL DATA – MULTIPLE POINT POWER SUPPLY CONNECTIONS – YCAL0287E_ - YCAL0377E_

(Two Field Provided Power Supply Circuits to the chiller. Field connections to Factory Provided Terminal Blocks (standard), Non-Fused Disconnect Switches (optional), or Individual System Circuit Breakers (optional) per electrical system)

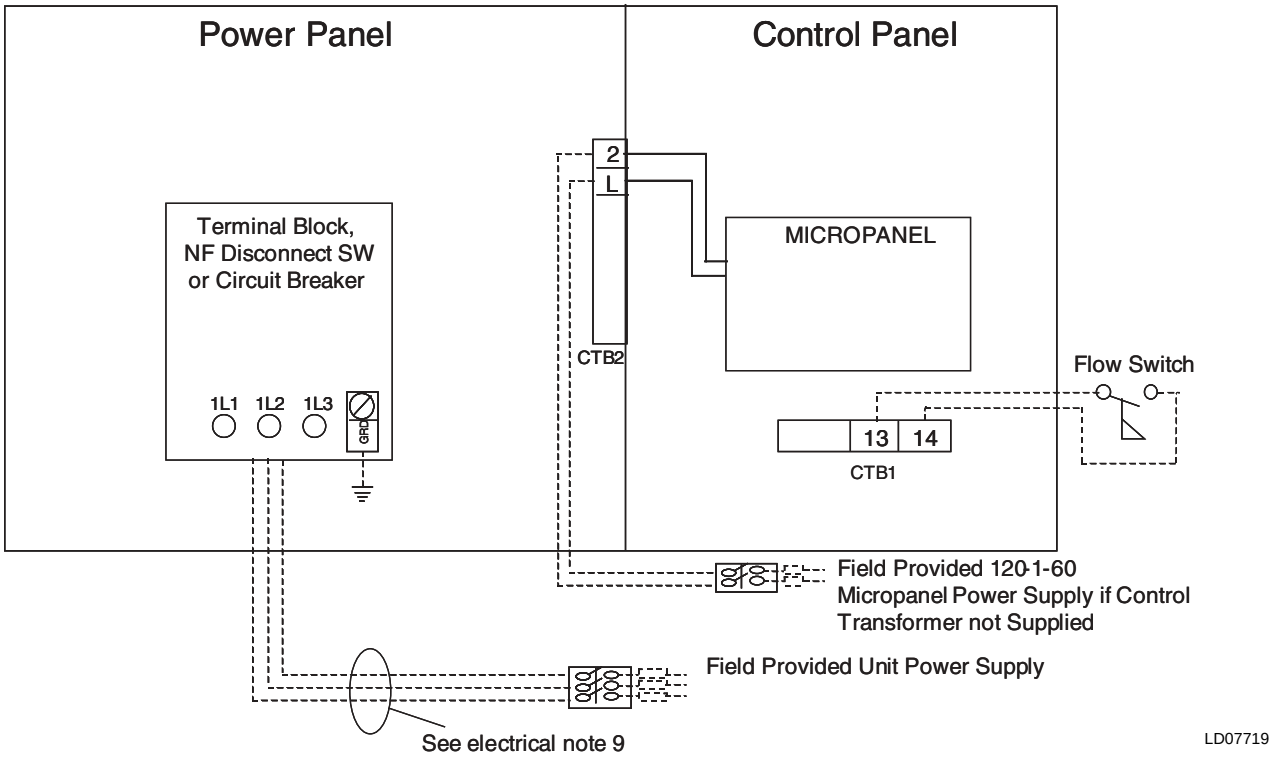
MODEL YCAL	VOLT	HZ	SYSTEM #1 FIELD SUPPLIED WIRING									SYSTEM #1 COMPRESSOR & FAN							
					D.E. FUSE		CKT. BKR.[5]		INCOMING (LUGS) WIRE RANGE[6]			COMPR. #1		COMPR. #2		COMPR. #3		FANS	
			MCA[1]	MIN N/F DISC SW[2]	MIN[3]	MAX[4]	MIN	MAX	TERMINAL BLOCK (std)	NF DISC. SWITCHES (opt)	CIR BREAKERS (opt)	RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA (EA)
0287	380/415	50	118	150	150	150	150	150	# 14 - 2/0	# 6 - 350	# 6 - 350	32.6	215	32.6	215	32.6	215	3	3.8
0317	380/415	50	118	150	150	150	150	150	# 14 - 2/0	# 6 - 350	# 6 - 350	32.6	215	32.6	215	32.6	215	3	3.8
0347	380/415	50	156	200	175	200	175	200	# 6 - 400	# 6 - 350	# 6 - 350	44.2	270	44.2	270	44.2	270	3	3.8
0377	380/415	50	156	200	175	200	175	200	# 6 - 400	# 6 - 350	# 6 - 350	44.2	270	44.2	270	44.2	270	3	3.8

See Notes and Legend on page 4.

ELECTRICAL DATA – MULTIPLE POINT POWER SUPPLY CONNECTIONS – YCAL0287E_ - YCAL0377E_

SYSTEM #2 FIELD SUPPLIED WIRING									SYSTEM #2 COMPRESSOR & FAN							
MCA[1]	MIN N/F DISC SW[2]	D.E. FUSE		CKT. BKR.[5]		INCOMING (LUGS) WIRE RANGE[6]			COMPR. #1		COMPR. #2		COMPR. #3		FANS	
		MIN[3]	MAX[4]	MIN	MAX	TERMINAL BLOCK (std)	NF DISC. SWITCHES (opt)	CIR BREAKERS (opt)	RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA (EA)
111	150	150	150	150	150	# 6 - 400	# 6 - 350	# 6 - 350	44.2	270	44.2	270	—	—	3	3.8
118	150	150	150	150	150	# 14 - 2/0	# 6 - 350	# 6 - 350	32.6	215	32.6	215	32.6	215	3	3.8
118	200	175	200	175	200	# 14 - 2/0	# 6 - 350	# 6 - 350	32.6	215	32.6	215	32.6	215	3	3.8
156	200	175	200	175	200	# 6 - 400	# 6 - 350	# 6 - 350	44.2	270	44.2	270	44.2	270	3	3.8

SINGLE-POINT SUPPLY CONNECTION – TERMINAL BLOCK, NON-FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER (0043 - 0253)



* Models YCAL0040-0080 Only (Models YCAL0014-0034 are Single Point)

Electrical Notes and Legend located on page 4.

WARNING

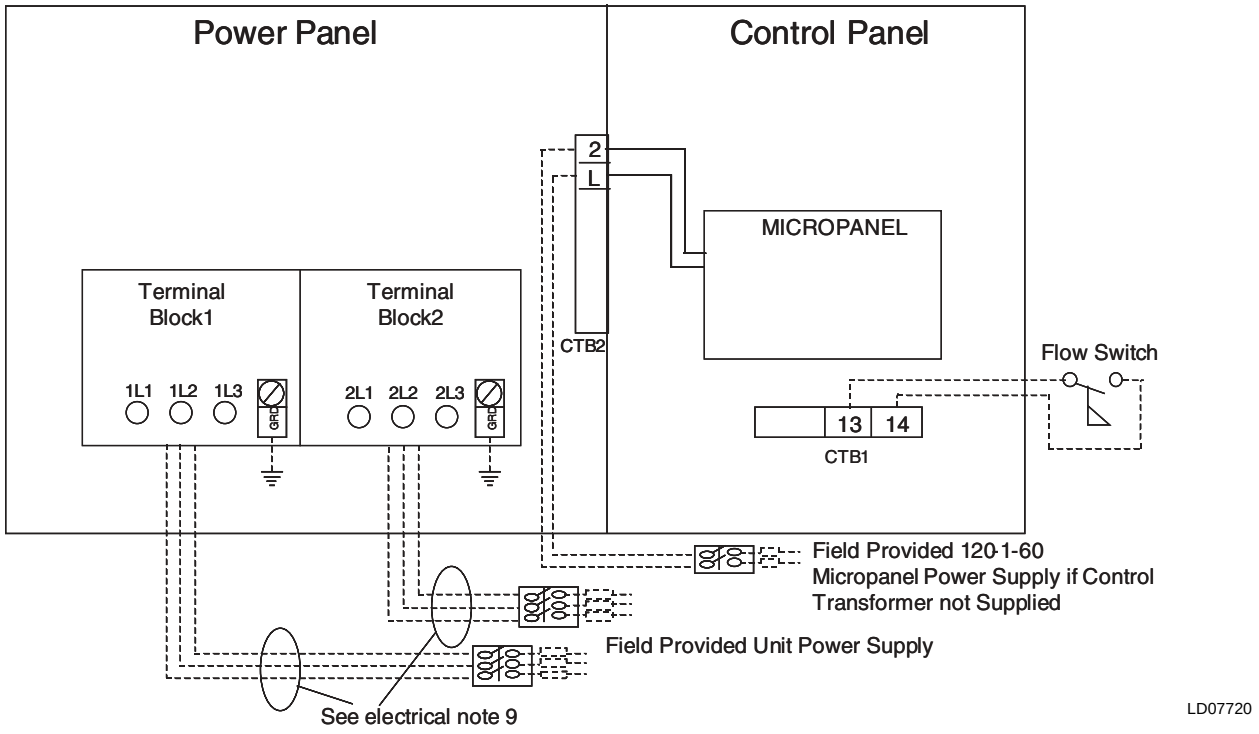
It is possible that multiple sources of power can be supplying the unit power panel. To prevent serious injury or death, the technician should verify that NO LETHAL VOLTAGES are present inside the panel AFTER disconnecting power, PRIOR to working on equipment.

CAUTION

The unit evaporator heater uses 120VAC. Disconnecting 120VAC 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. 1 – SINGLE-POINT SUPPLY CONNECTION – TERMINAL BLOCK, NON-FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER (0043 - 0253)

MULTIPLE POINT POWER SUPPLY CONNECTION – TERMINAL BLOCK (0117 - 0253)



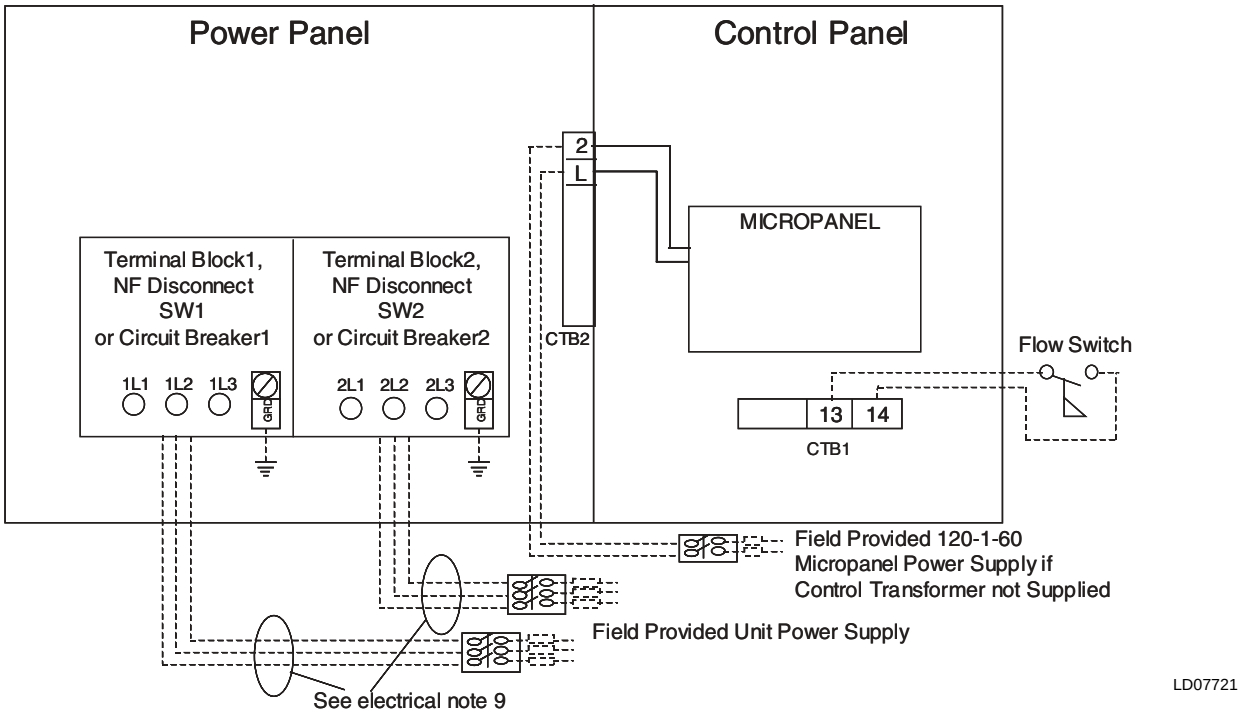
Electrical Notes and Legend located on page 4.

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 120VAC. Disconnecting 120VAC 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. 2 – MULTIPLE POINT POWER SUPPLY CONNECTION – TERMINAL BLOCK (0117 - 0253)

MULTIPLE POINT POWER SUPPLY CONNECTION – TERMINAL BLOCK, NON-FUSED DISCONNECT SWITCHES OR CIRCUIT BREAKERS (0287 - 0377)



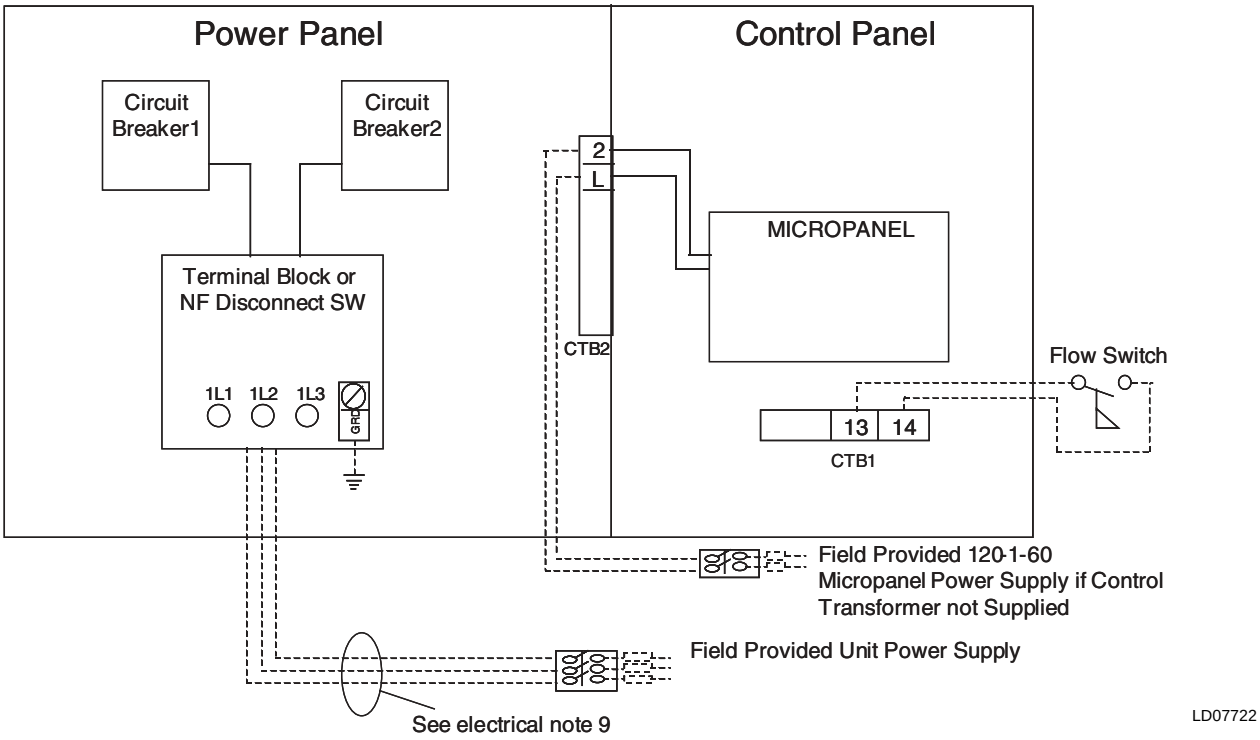
Electrical Notes and Legend located on page 4.

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 120VAC. Disconnecting 120VAC 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. 3 – MULTIPLE POINT POWER SUPPLY CONNECTION – TERMINAL BLOCK, NON-FUSED DISCONNECT SWITCHES OR CIRCUIT BREAKERS (0287 - 0377)

SINGLE-POINT SUPPLY CONNECTION – TERMINAL BLOCK OR NON-FUSED DISCONNECT SWITCH TO INDIVIDUAL SYSTEM CIRCUIT BREAKERS (0287 - 0377)



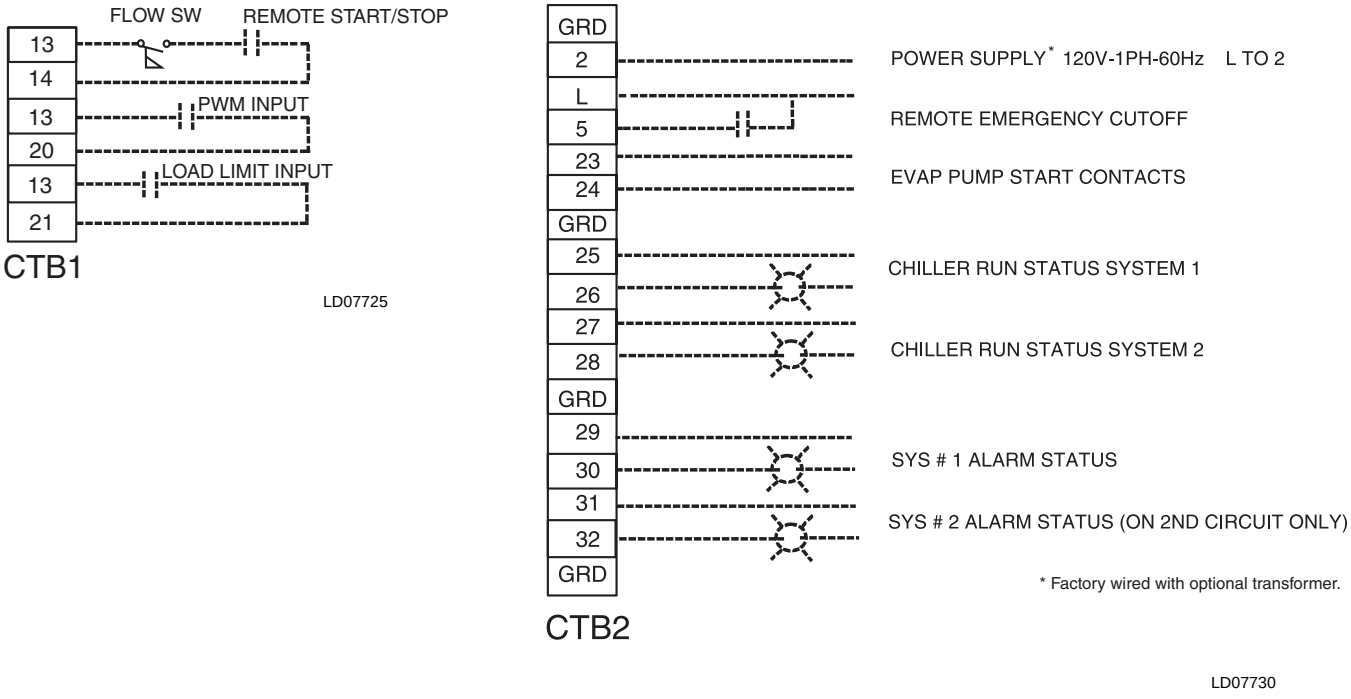
Electrical Notes and Legend located on page 4.

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 120VAC. Disconnecting 120VAC 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 – OPTIONAL SINGLE-POINT POWER WIRING

CONTROL WIRING



WARNING

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.

CAUTION

The unit evaporator heater uses 120VAC. Disconnecting 120VAC 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. 5 – CONTROL WIRING

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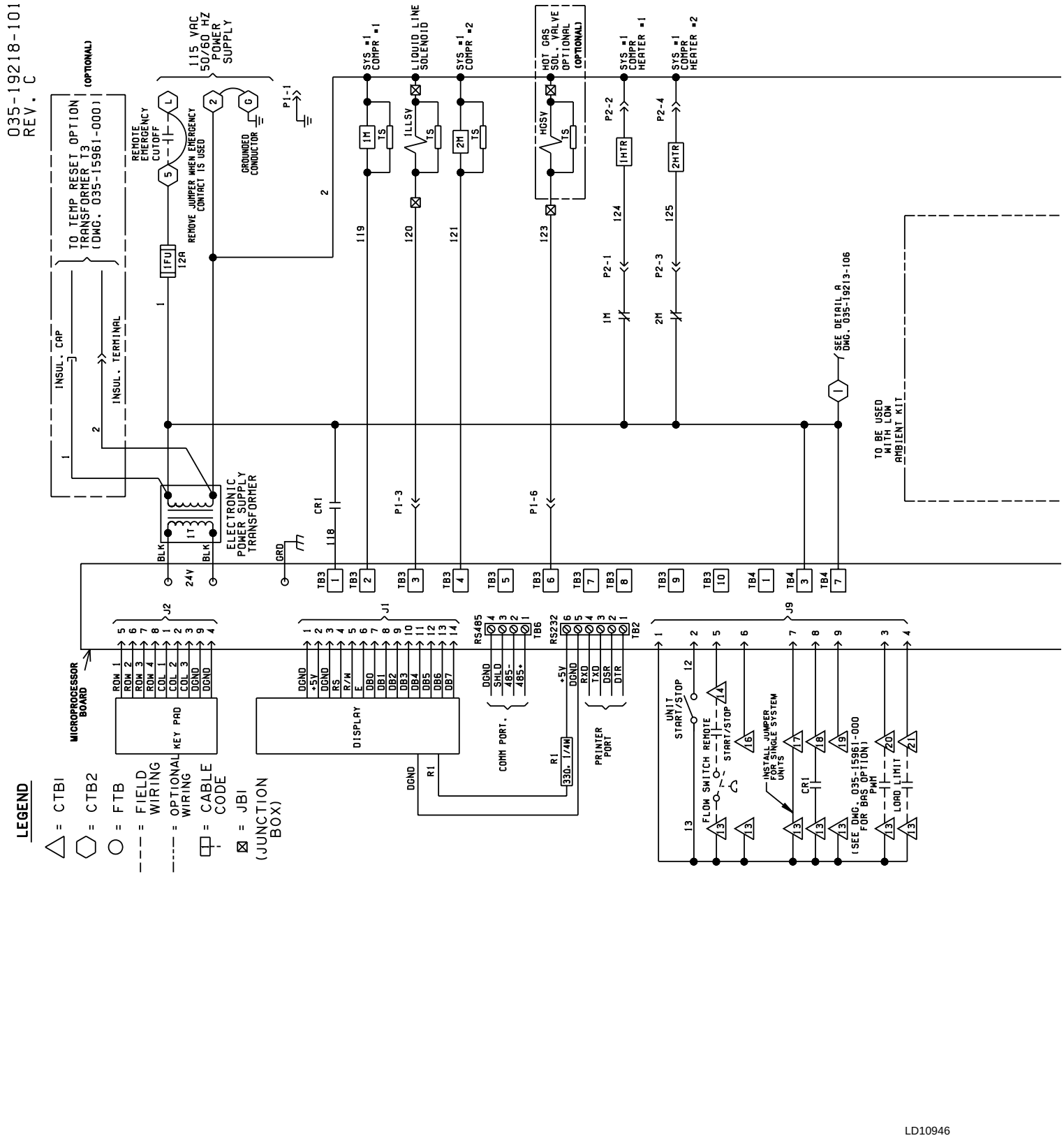
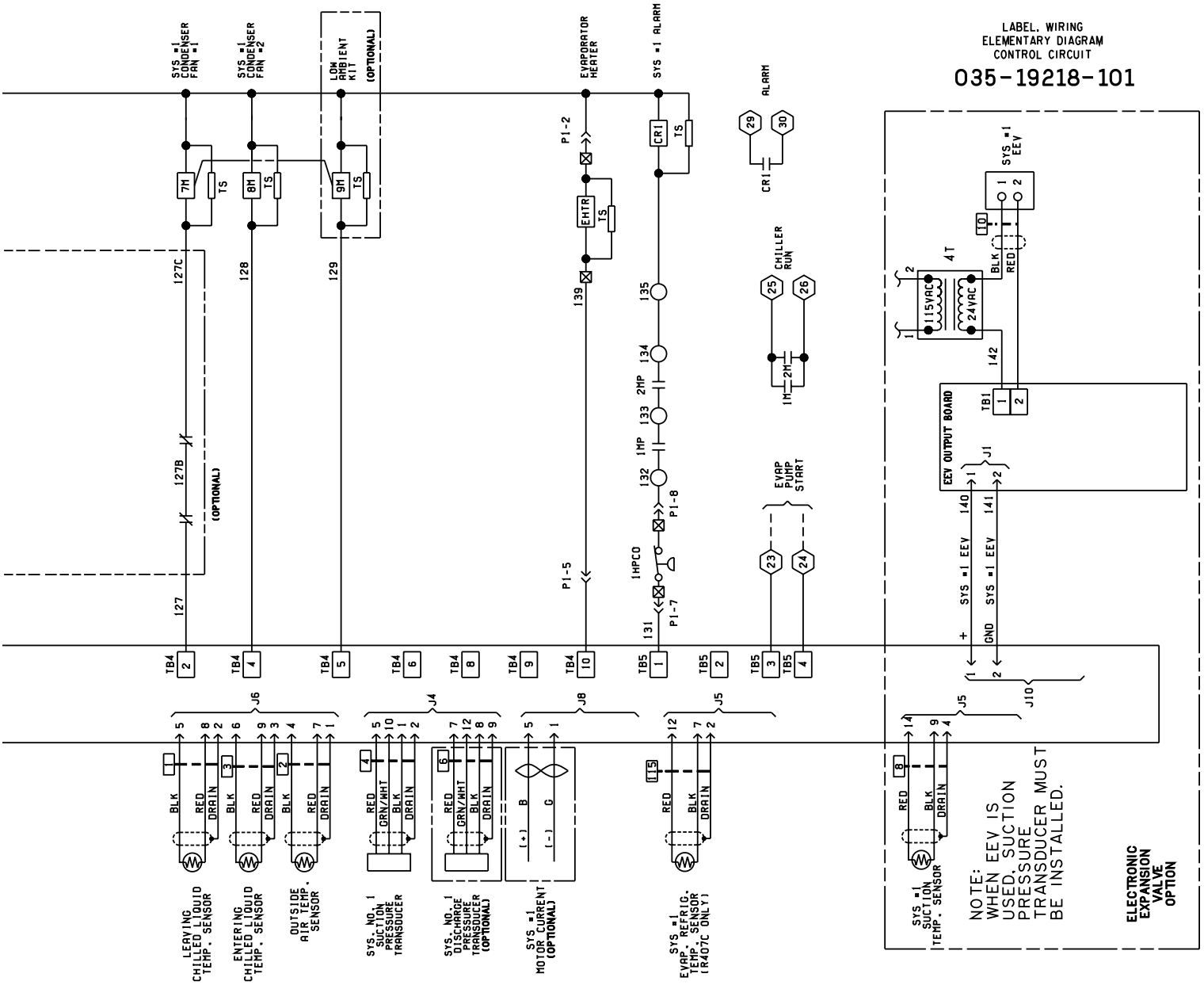
ELEMENTARY DIAGRAM
YCAL0043E_ – YCAL0087E_



LD10946

FIG. 6 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0043E_ - YCAL0087E_

ELEMENTARY DIAGRAM (CON'T)
YCAL0043E_ – YCAL0087E_



LD10947

ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0043E_ - YCAL0087E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0043E_ – YCAL0087E_

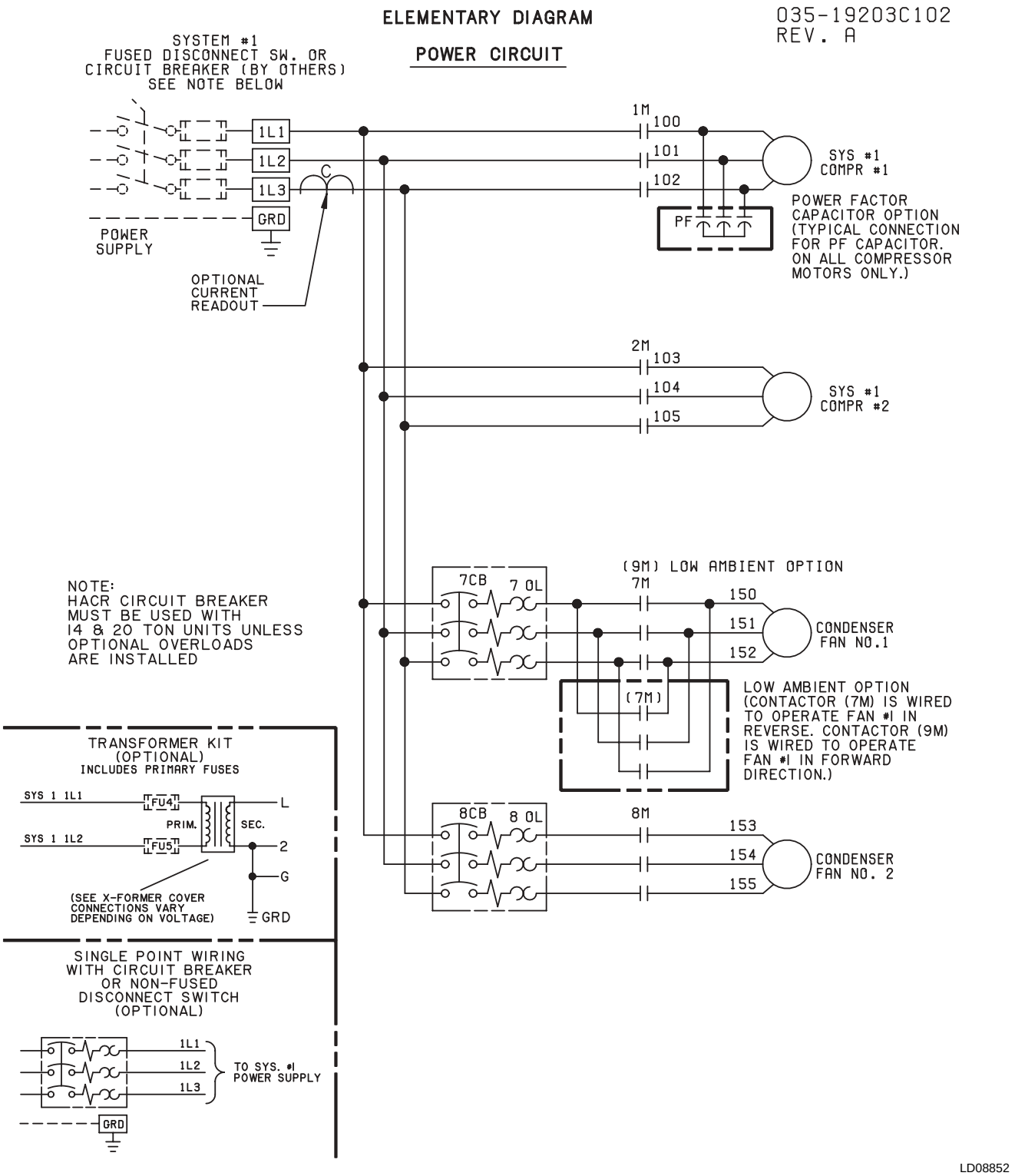


FIG. 7 – ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0043E_ - YCAL0087E_

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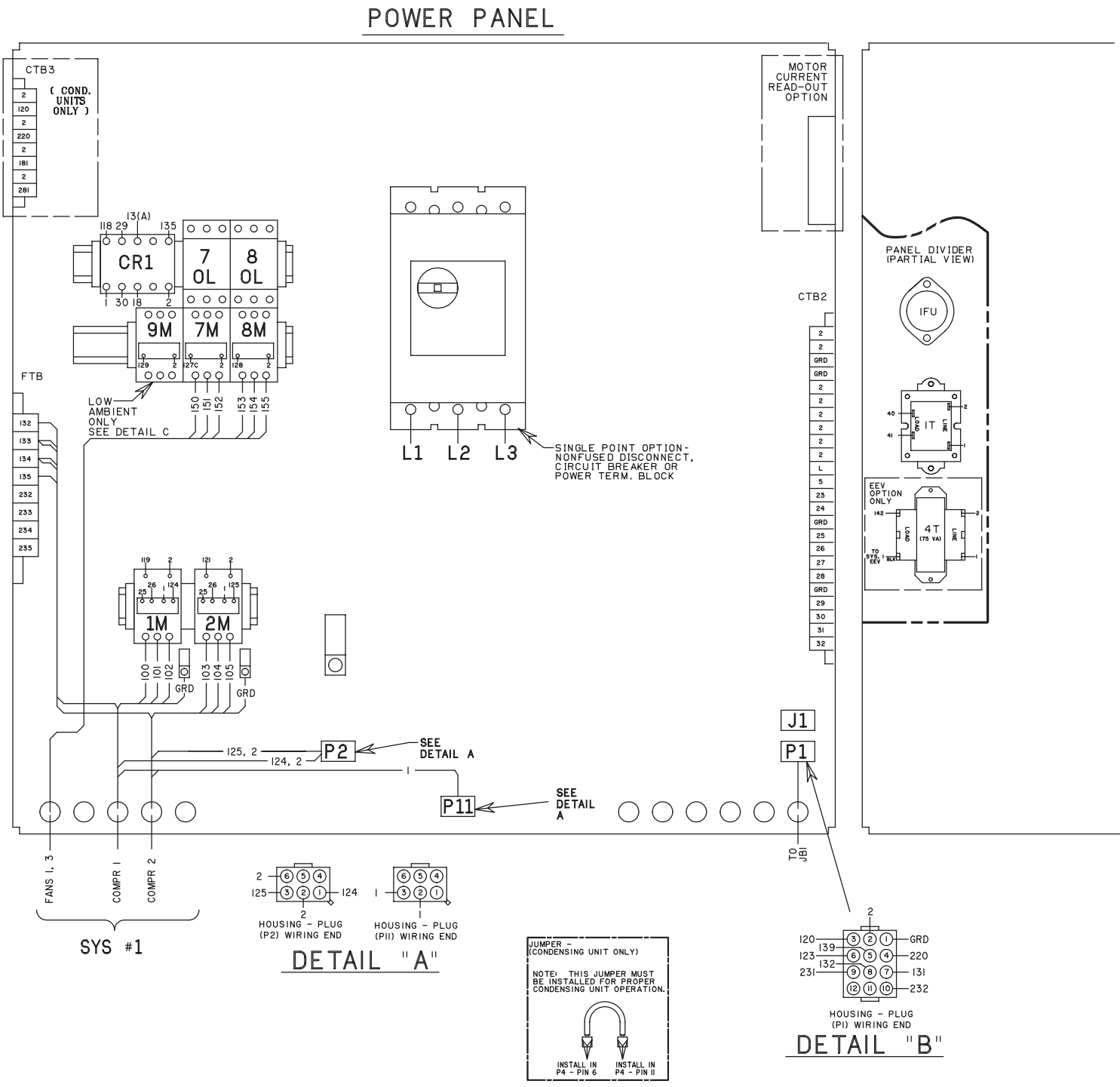
CONNECTION DIAGRAM
YCAL0043E_ AND YCAL0087E_



LD08854

FIG. 8 – CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0043E_ - YCAL0087E_

CONNECTION DIAGRAM (CON'T)
YCAL0043E_ AND YCAL0087E_

035-19215-000
REV A

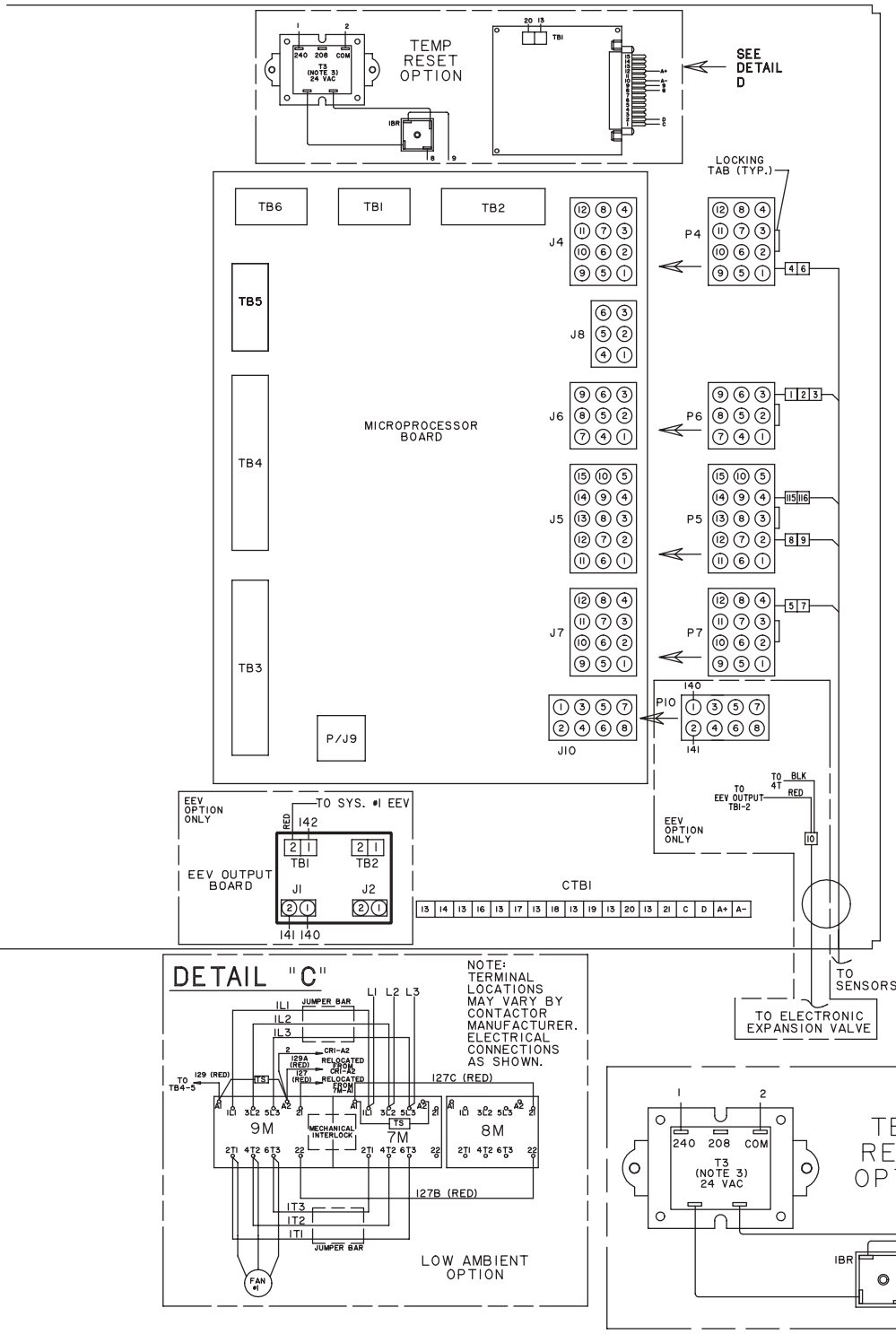


TABLE II

BOARD PLUG NO.	CABLE ITEM NO.	CABLE CODE	WIRE COLOR	PLUG PIN NO.	FUNCTION	LEGEND
MICRO P4	19	4	RED	5	SYS #1 SUCTION PRESSURE	ISPT
			WHT	10		
			BLK	1		
			DRAIN	2		
	(OPTIONAL KIT)	6	RED	7	SYS #1 DISCHARGE PRESSURE	IDPT
			WHT	12		
			BLK	8		
			DRAIN	9		
MICRO P6	19	1	BLK	5	LEAVING WATER TEMP	LWT
			RED	8		
			DRAIN	2		
	19	3	BLK	6	ENTERING WATER TEMP	EWT
			RED	9		
			DRAIN	3		
	19	2	BLK	4	OUTSIDE AIR TEMP.	OAT
			RED	7		
			DRAIN	1		
MICRO P5	STANDARD 407C	15	RED	12	SYS #1 LIQ. TEMP. SENSOR	ILTS
			BLK	7		
			DRAIN	2		
	(OPTIONAL KIT)	8	RED	14	SYS #1 SUCTION TEMP. SENSOR	ISTS
			BLK	9		
			DRAIN	4		
EEV OUTPUT BOARD AND TRANS FORMER 4T, 5T (OPTIONAL)	(OPTIONAL KIT)	10	BLK	4T (TRANS)	SYS #1 EEV OUTPUT	IEEV
			RED	EEV OUTPUT BOARD TB1-2		

NOTE: CABLES AND PLUGS (P4 & P6) ARE SUPPLIED IN KIT (ITEM 19)

LD08855

CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0043E_ - YCAL0087E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0043E_ AND YCAL0087E_

ELEMENTARY DIAGRAM
MIDDLE MARKET
STANDARD AND REMOTE EVAPORATOR UNITS

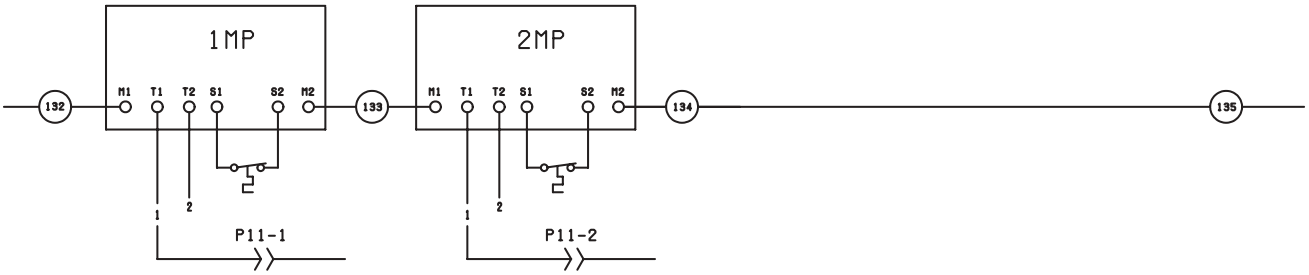
035-19213-106
REV. B

NOTES:
1. FIELD WIRING TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL OTHER APPLICABLE CODES AND SPECIFICATIONS.
2. CONTACTS MUST BE SUITABLE FOR SWITCHING 24VDC, (GOLD CONTACTS RECOMMENDED). WIRING SHALL NOT BE RUN IN THE SAME CONDUIT WITH ANY LINE VOLTAGE (CLASS I) WIRING.
3. TO CYCLE UNIT ON AND OFF AUTOMATICALLY WITH CONTACT SHOWN, INSTALL A CYCLING DEVICE IN SERIES WITH THE FLOW SWITCH. SEE NOTE 2 FOR CONTACT RATING AND WIRING SPECIFICATIONS.
4. TO STOP UNIT (EMERGENCY STOP) WITH CONTACTS OTHER THAN THOSE SHOWN, INSTALL THE STOP CONTACT BETWEEN TERMINALS 5 AND 1. IF A STOP DEVICE IS NOT INSTALLED, A JUMPER MUST BE CONNECTED BETWEEN TERMINALS 5 AND 1. DEVICE MUST HAVE A MINIMUM CONTACT RATING OF 6A AT 115VOLTS A.C.
5. CONTACTS ARE RATED AT 115V, 100VA, RESISTIVE LOAD ONLY, AND MUST BE SUPPRESSED AT LOAD BY USER.
6. SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL WHEN OPTIONAL EQUIPMENT IS USED.
7. OPTIONAL CURRENT READOUT. 5V = 225A.
8. 1MP THRU 6MP ARE CONTAINED IN THEIR RESPECTIVE COMPRESSOR JUNCTION BOXES.

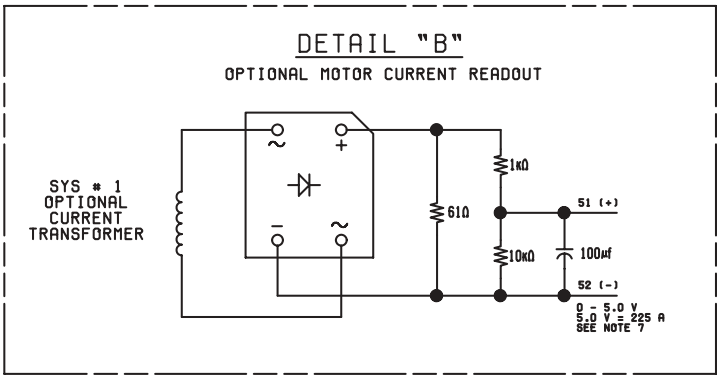
LEGEND

TS	TRANSIENT VOLTAGE SUPRESSION
⬡	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
△	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
○	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
———	WIRING AND COMPONENTS BY YORK
———	OPTIONAL EQUIPMENT
— — —	WIRING AND/OR COMPONENTS BY OTHERS

DETAIL "A"



DETAIL "B"
OPTIONAL MOTOR CURRENT READOUT



LD08856

FIG. 9 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0043E_ - YCAL0087E_

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ELEMENTARY DIAGRAM
YCAL0107E_

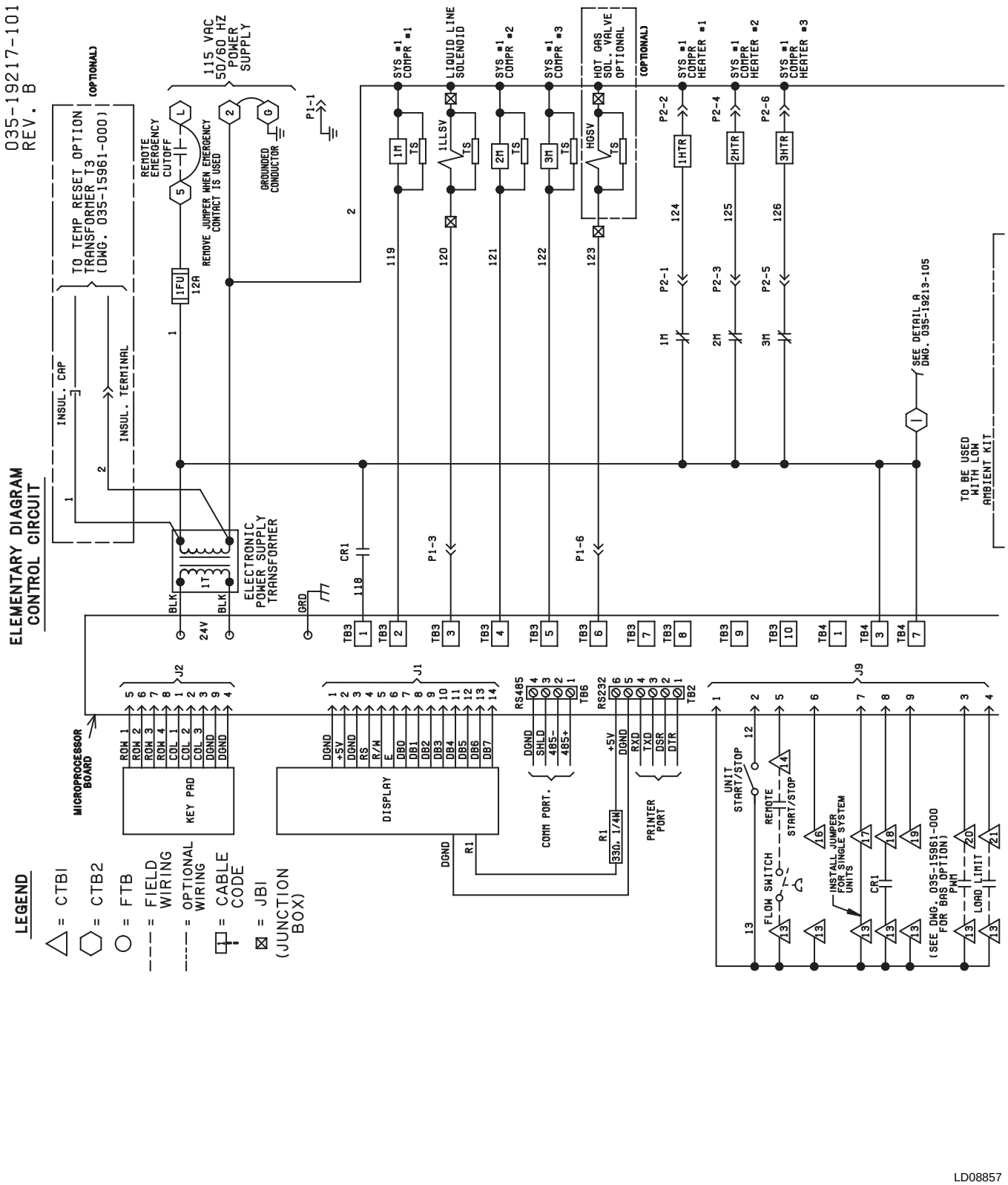
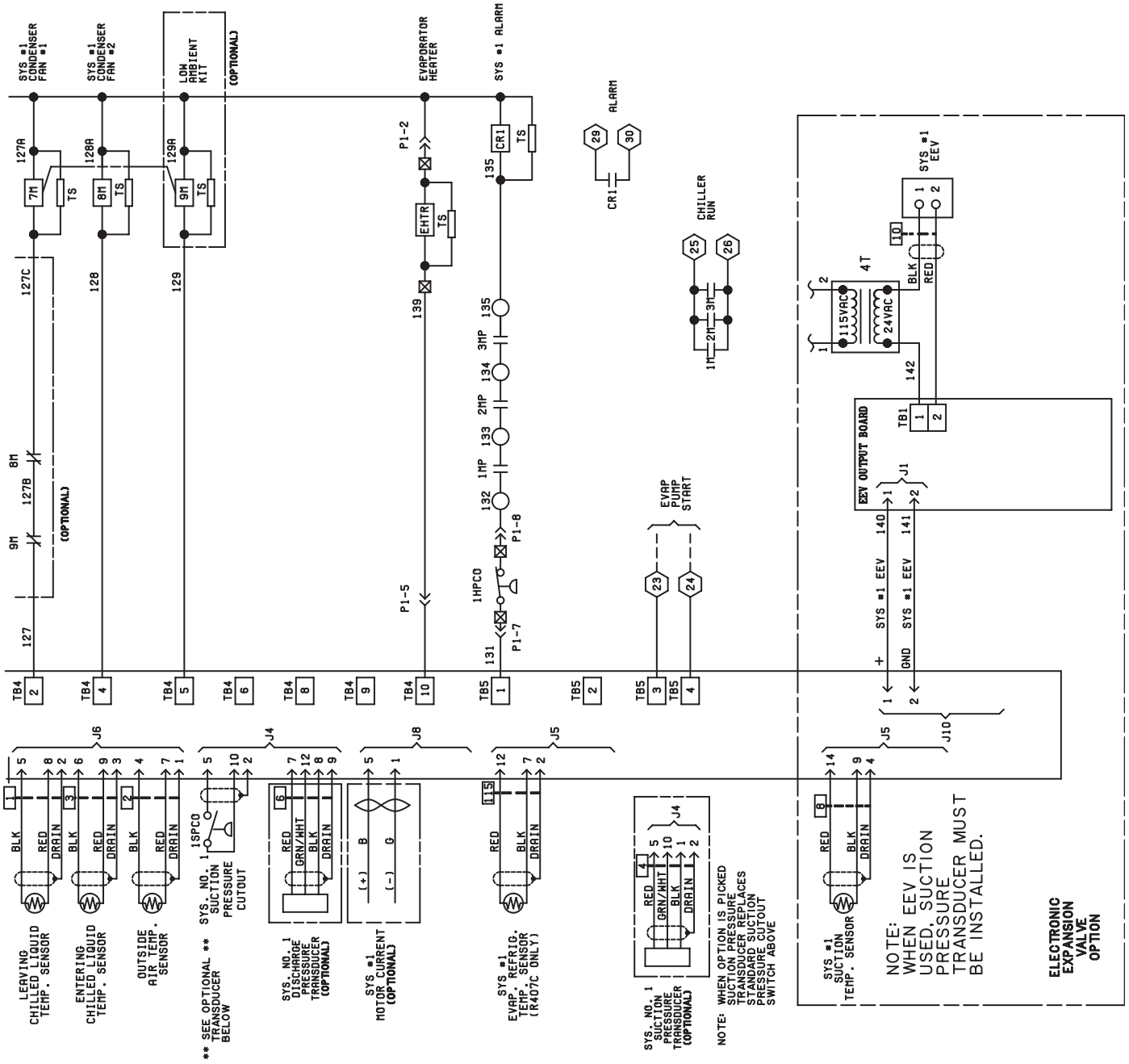


FIG. 10 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL00107E_

ELEMENTARY DIAGRAM (CON'T)
YCAL0107E_



LD08858

ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL00107E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0107E_

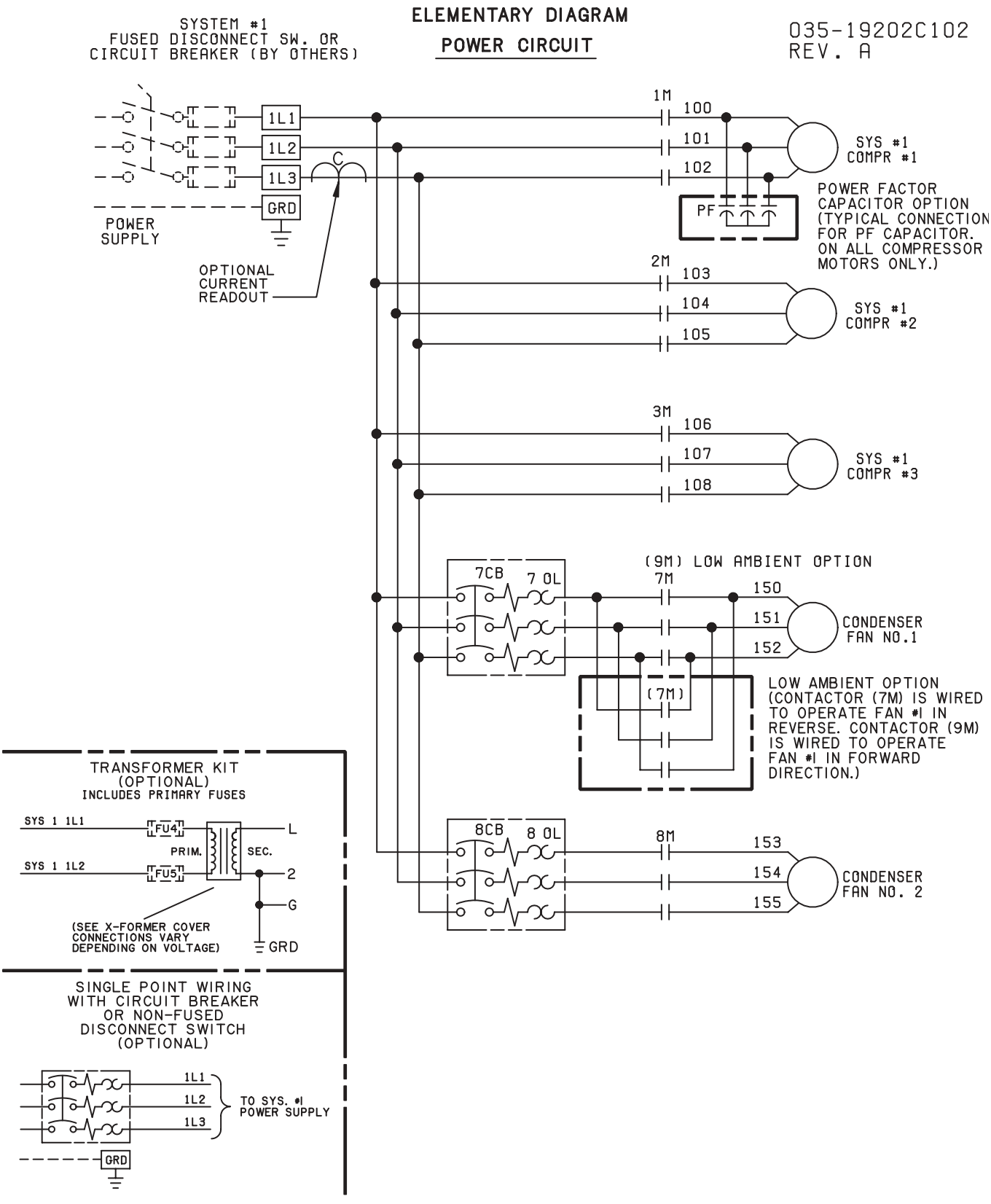


FIG. 11 – ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0107E_

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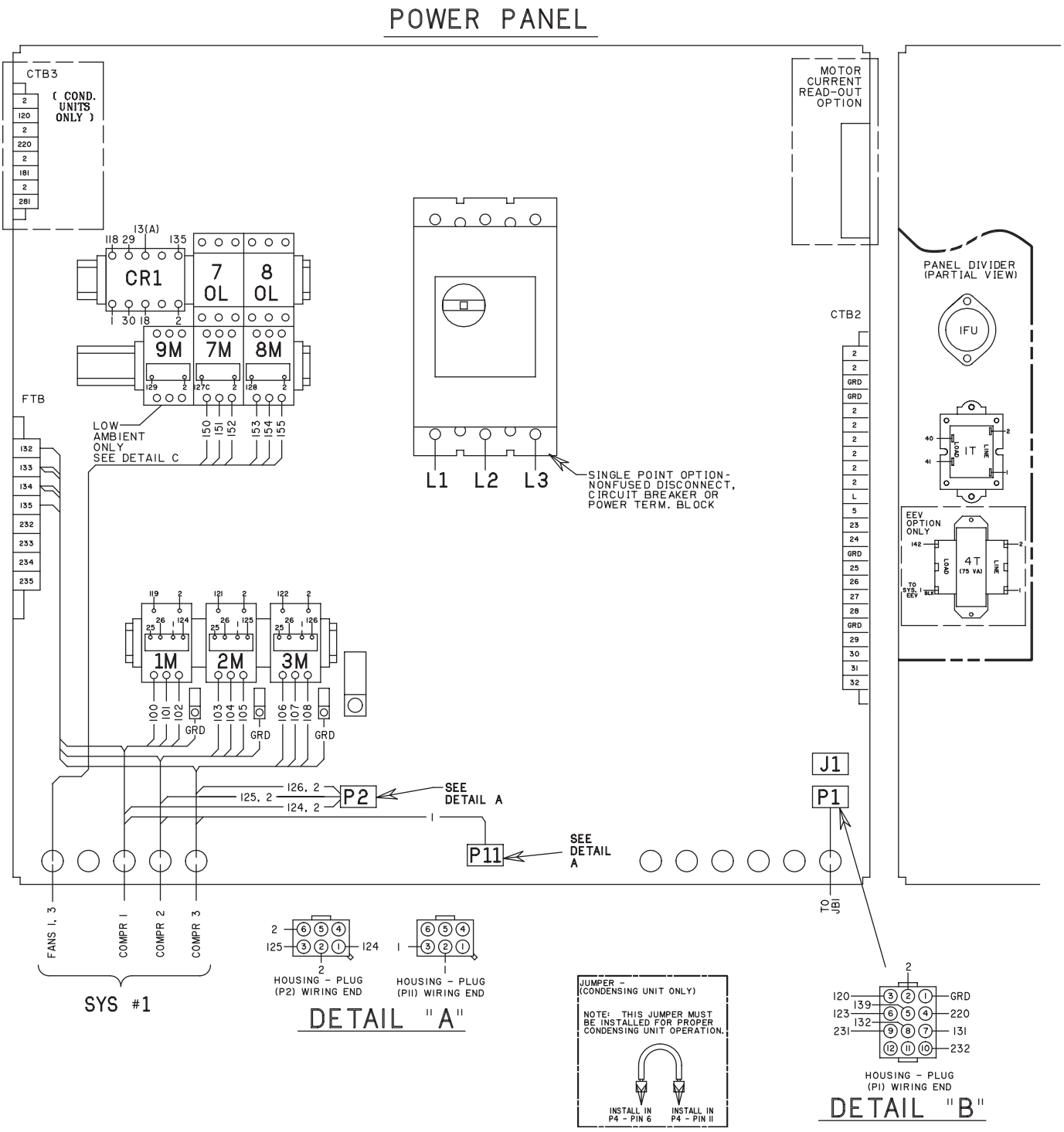
CONNECTION DIAGRAM
YCAL0107E_



LD08861

FIG. 12 – CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0107E_

CONNECTION DIAGRAM (CON'T)
YCAL0107E_

035-19216-000
REV A

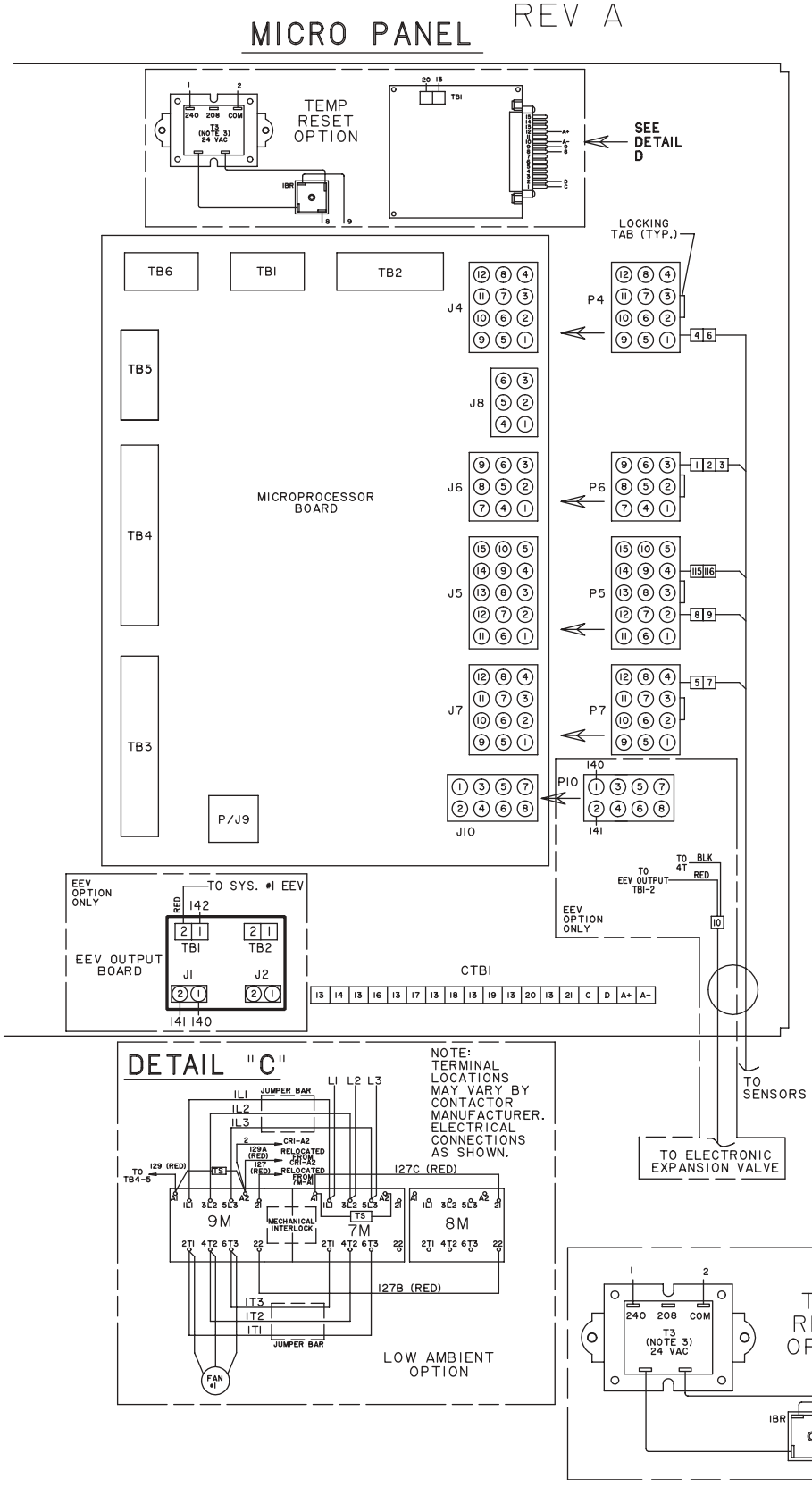


TABLE II

BOARD PLUG NO.	CABLE ITEM NO.	CABLE CODE	WIRE COLOR	PLUG PIN NO.	FUNCTION	LEGEND
MICRO P4	19	4	RED	5	SYS #1 SUCTION PRESSURE	ISPT
			WHT	10		
			BLK	1		
			DRAIN	2		
	(OPTIONAL KIT)	6	RED	7	SYS #1 DISCHARGE PRESSURE	IDPT
			WHT	12		
			BLK	8		
			DRAIN	9		
MICRO P6	19	1	BLK	5	LEAVING WATER TEMP	LWT
			RED	8		
			DRAIN	2		
	19	3	BLK	6	ENTERING WATER TEMP	EWT
			RED	9		
			DRAIN	3		
	19	2	BLK	4	OUTSIDE AIR TEMP.	OAT
			RED	7		
			DRAIN	1		
MICRO P5	STANDARD 407C	15	RED	12	SYS #1 LIQ. TEMP. SENSOR	ILTS
			BLK	7		
			DRAIN	2		
	(OPTIONAL KIT)	8	RED	14	SYS #1 SUCTION TEMP. SENSOR	ISTS
			BLK	9		
			DRAIN	4		
EEV OUTPUT BOARD AND TRANS FORMER 4T, 5T (OPTIONAL)	(OPTIONAL KIT)	10	BLK	4T (TRANS)	SYS #1 EEV OUTPUT	IEEV
			RED	EEV OUTPUT BOARD TB1-2		

NOTE: CABLES AND PLUGS (P4 & P6) ARE SUPPLIED IN KIT (ITEM 19)

CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0107E_ (CON'T)

LD08862

ELEMENTARY DIAGRAM
YCAL0107E_

ELEMENTARY DIAGRAM
MIDDLE MARKET
STANDARD AND REMOTE EVAPORATOR UNITS

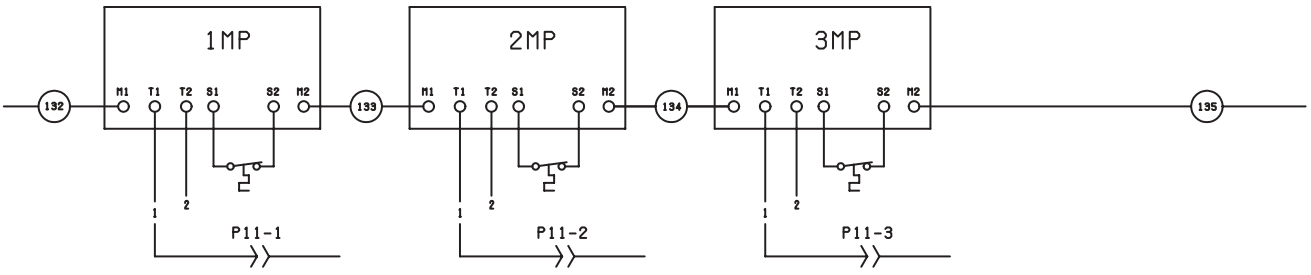
035-19213-105
REV. B

NOTES:
1. FIELD WIRING TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL OTHER APPLICABLE CODES AND SPECIFICATIONS.
2. CONTACTS MUST BE SUITABLE FOR SWITCHING 24VDC, (GOLD CONTACTS RECOMMENDED). WIRING SHALL NOT BE RUN IN THE SAME CONDUIT WITH ANY LINE VOLTAGE (CLASS I) WIRING.
3. TO CYCLE UNIT ON AND OFF AUTOMATICALLY WITH CONTACT SHOWN, INSTALL A CYCLING DEVICE IN SERIES WITH THE FLOW SWITCH. SEE NOTE 2 FOR CONTACT RATING AND WIRING SPECIFICATIONS.
4. TO STOP UNIT (EMERGENCY STOP) WITH CONTACTS OTHER THAN THOSE SHOWN, INSTALL THE STOP CONTACT BETWEEN TERMINALS 5 AND 1. IF A STOP DEVICE IS NOT INSTALLED, A JUMPER MUST BE CONNECTED BETWEEN TERMINALS 5 AND 1. DEVICE MUST HAVE A MINIMUM CONTACT RATING OF 6A AT 115VOLTS A.C.
5. CONTACTS ARE RATED AT 115V, 100VA, RESISTIVE LOAD ONLY, AND MUST BE SUPPRESSED AT LOAD BY USER.
6. SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL WHEN OPTIONAL EQUIPMENT IS USED.
7. OPTIONAL CURRENT READOUT. 5V = 225A.
8. 1MP THRU 6MP ARE CONTAINED IN THEIR RESPECTIVE COMPRESSOR JUNCTION BOXES.

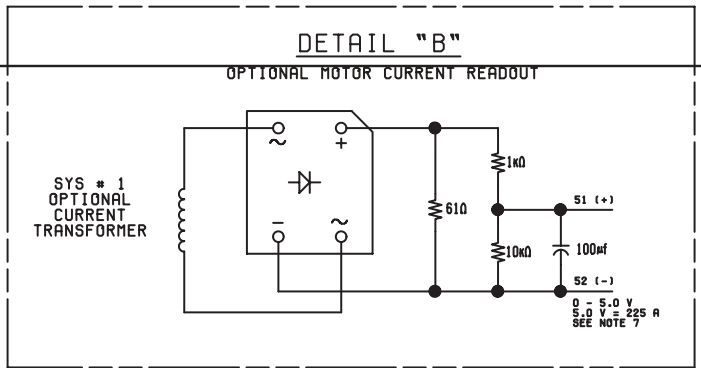
LEGEND

TS	TRANSIENT VOLTAGE SUPRESSION
⬡	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
△	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
○	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
———	WIRING AND COMPONENTS BY YORK
——–——	OPTIONAL EQUIPMENT
— — —	WIRING AND/OR COMPONENTS BY OTHERS

DETAIL "A"



DETAIL "B"
OPTIONAL MOTOR CURRENT READOUT



LD08863

FIG. 13 – ELEMENTARY DIAGRAM, MIDLLE MARKET – YCAL0107E_

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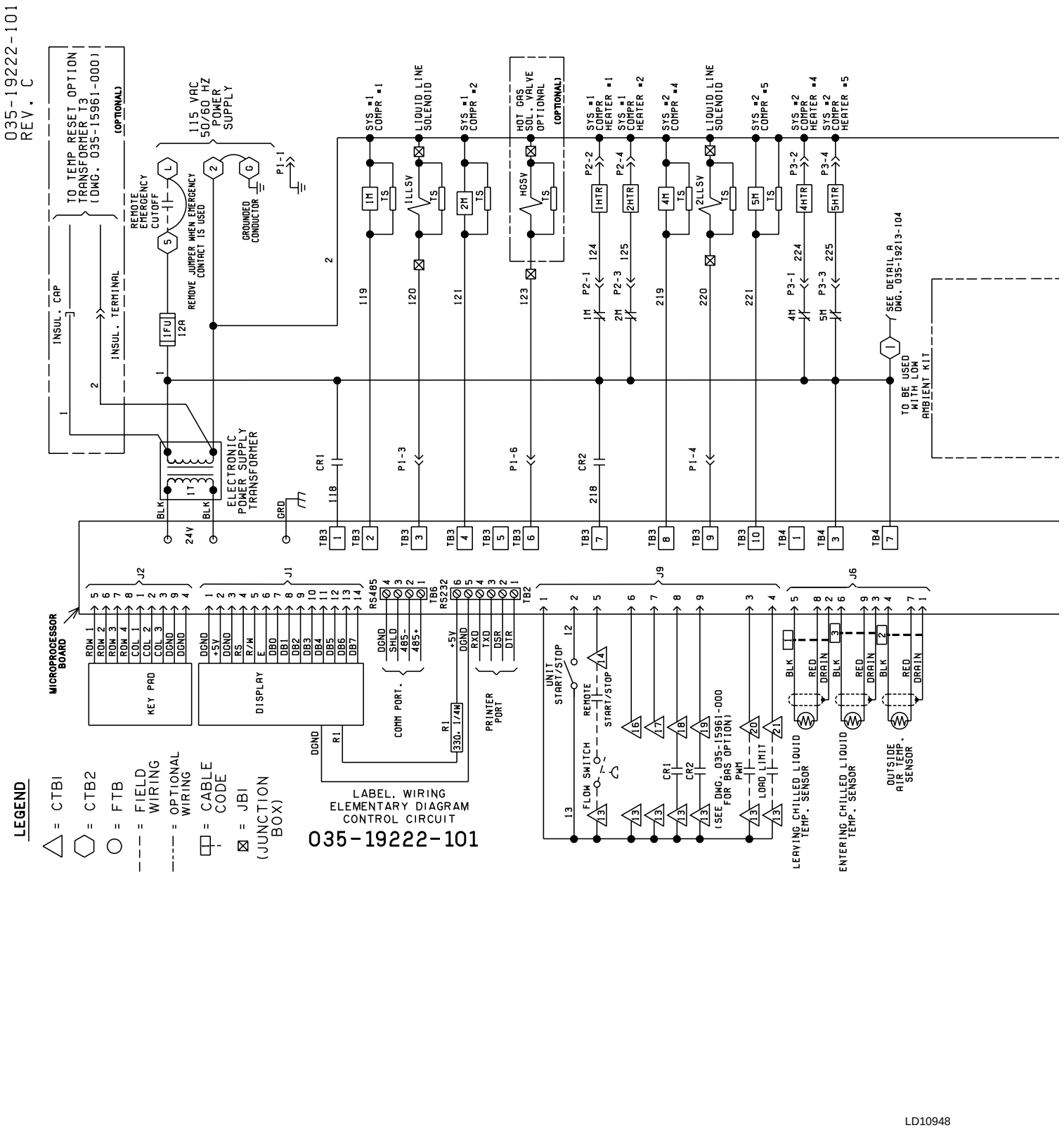
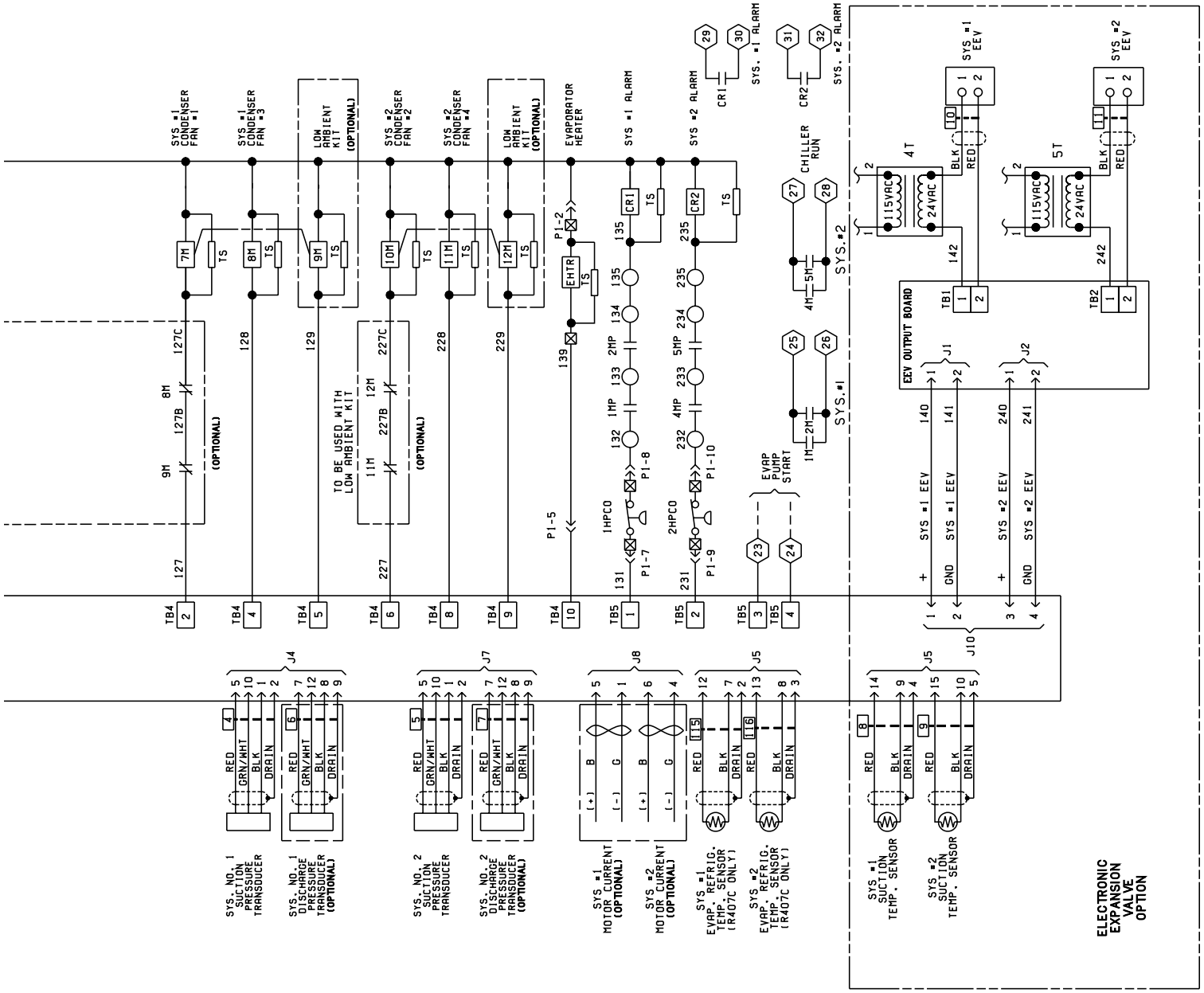
ELEMENTARY DIAGRAM
YCAL0117E_ – YCAL0173E_



LD10948

FIG. 14 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0117E_ - YCAL0173E_

ELEMENTARY DIAGRAM (CON'T)
YCAL0117E_ – YCAL0173E_



LD10949

ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0117E_ - YCAL0173E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0117E_ – YCAL0173E_

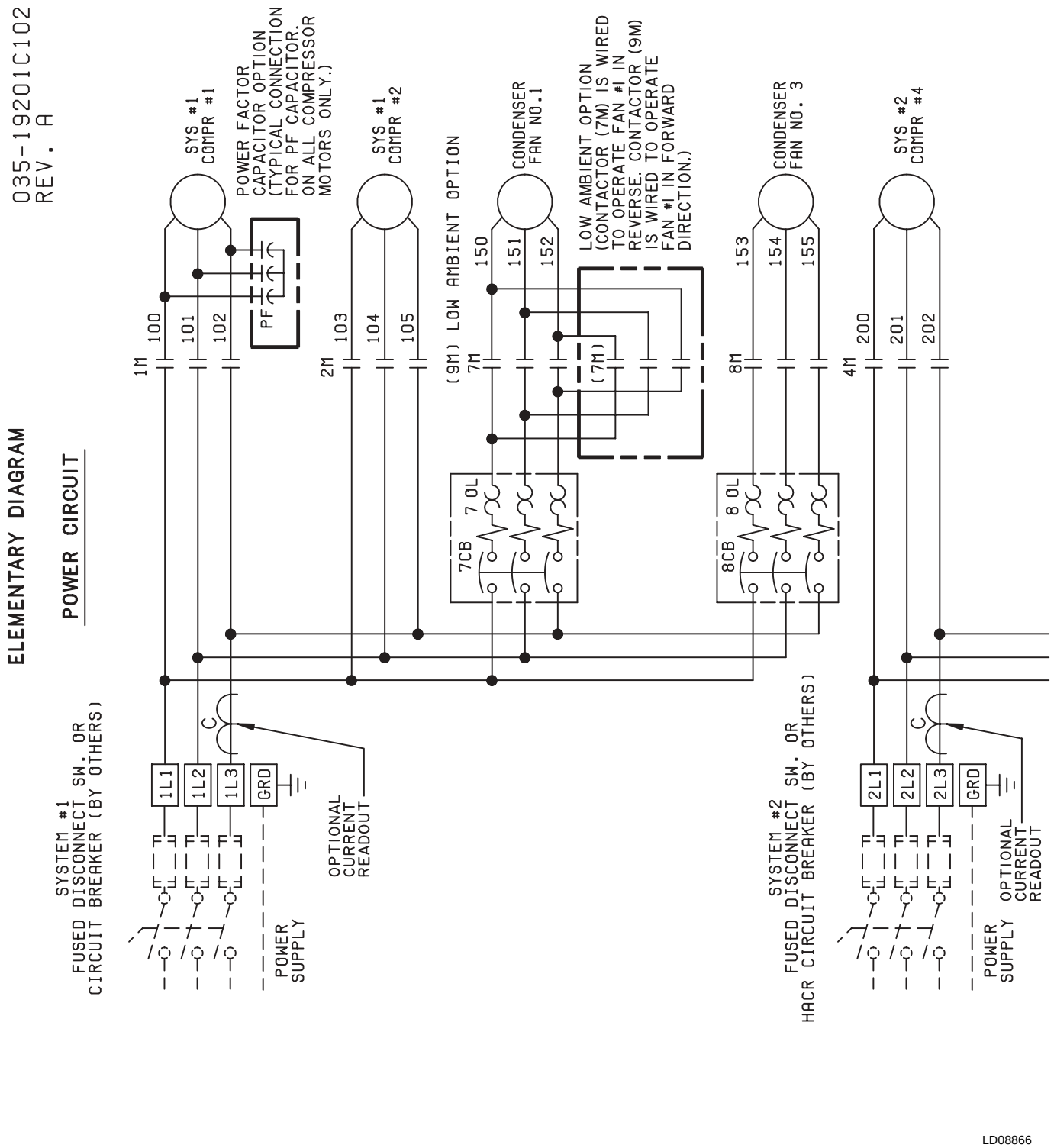
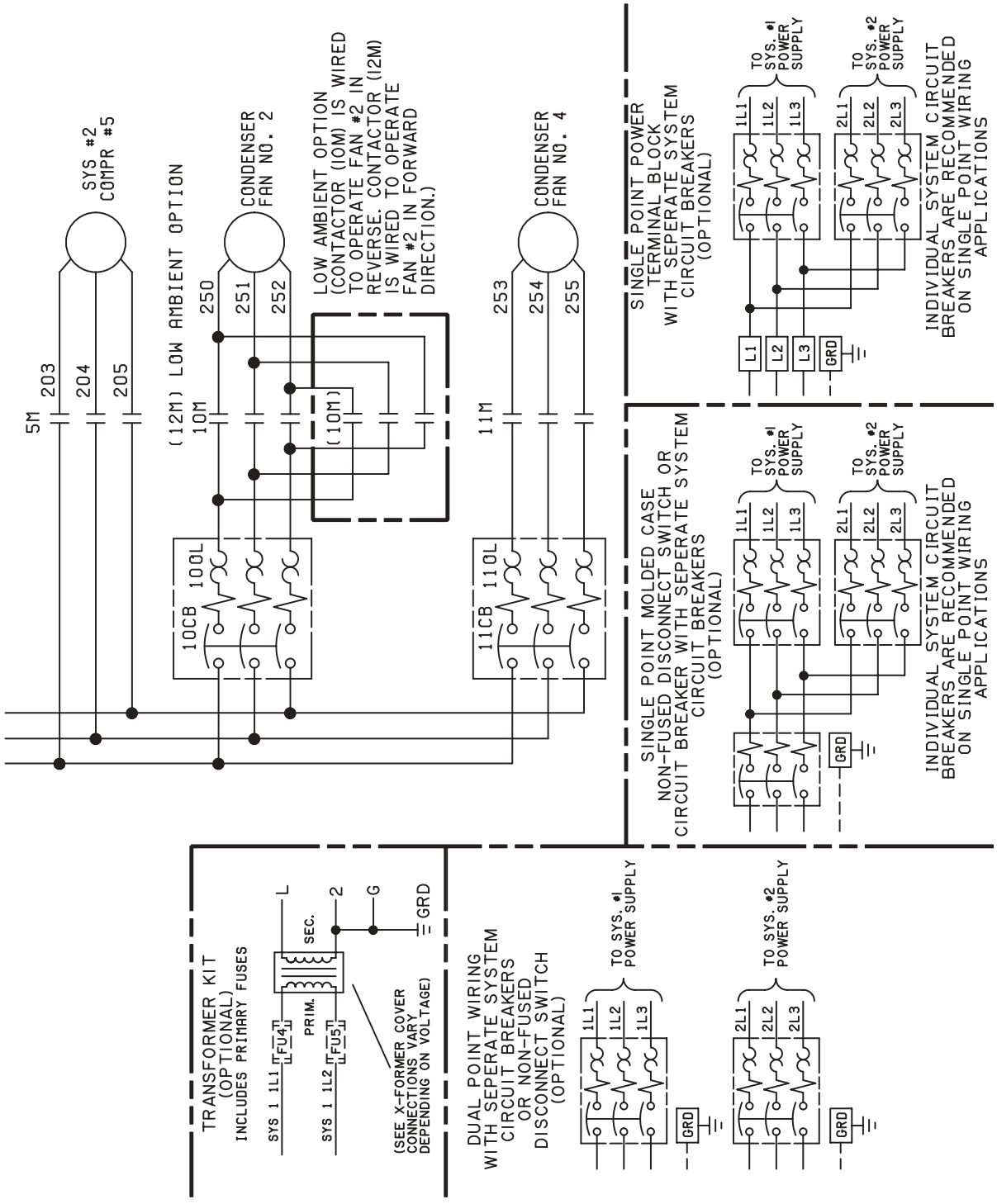


FIG. 15 – ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0117E_ - YCAL0173E_

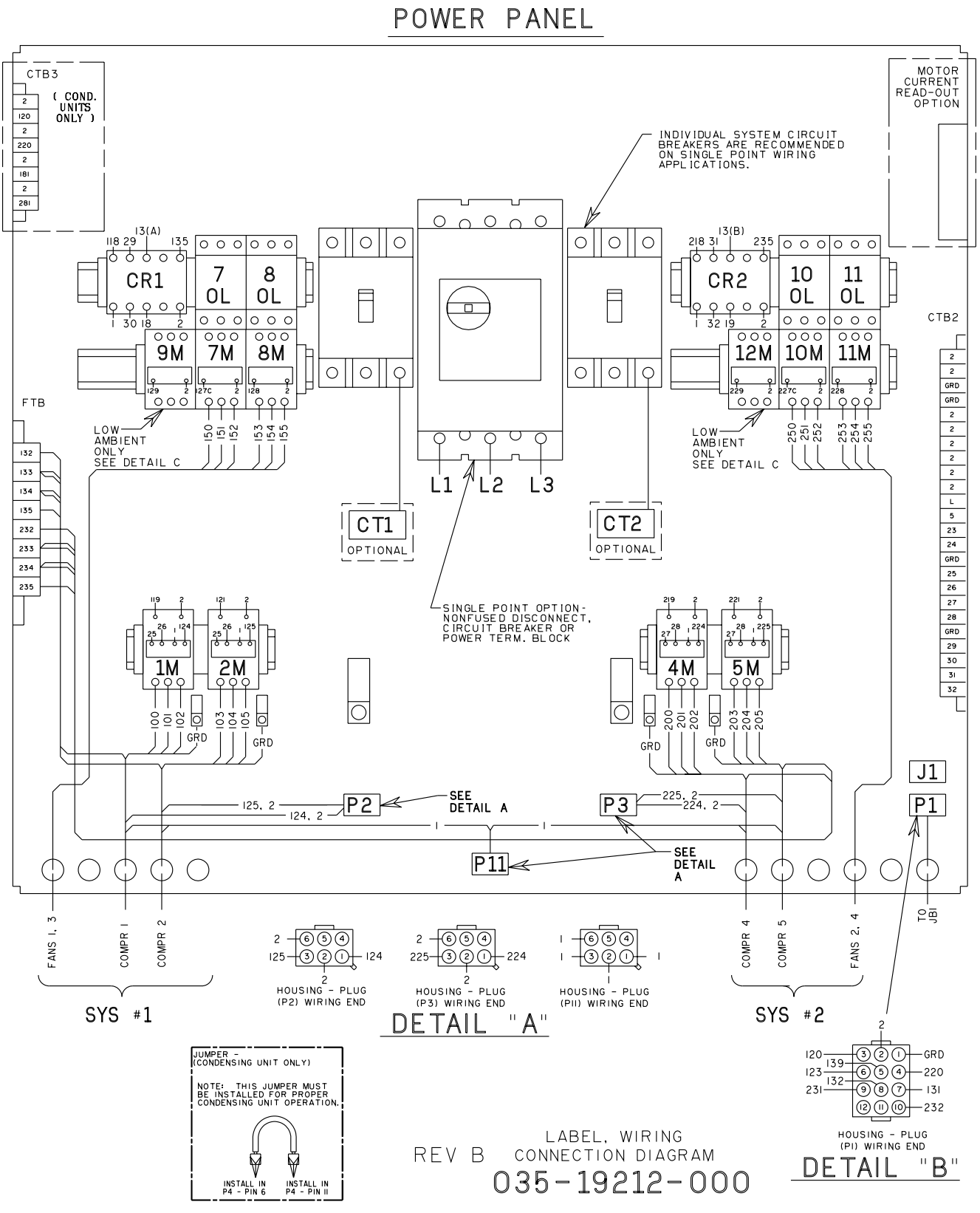
ELEMENTARY DIAGRAM (CON'T)
YCAL0117E_ – YCAL0173E_



LD08867

ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0117E_ - YCAL0173E_ (CON'T)

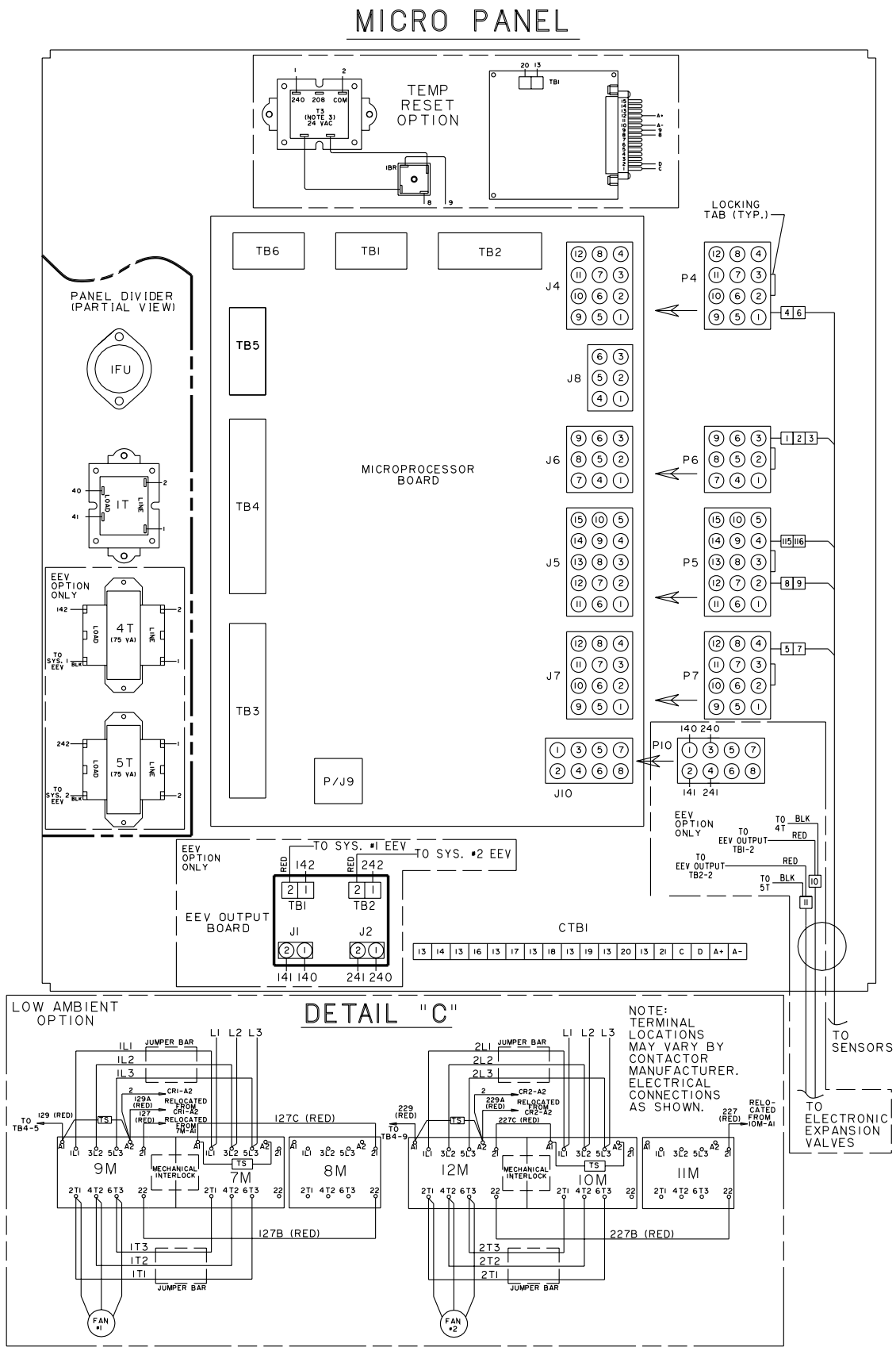
CONNECTION DIAGRAM
YCAL0117E_ – YCAL0173E_



LD10950

FIG. 16 – CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0117E_ - YCAL0173E_

CONNECTION DIAGRAM (CON'T)
YCAL0117E_ – YCAL0173E_



LD10951

CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0117E_ - YCAL0173E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0117E_ – YCAL0173E_

ELEMENTARY DIAGRAM
MIDDLE MARKET
STANDARD AND REMOTE EVAPORATOR UNITS

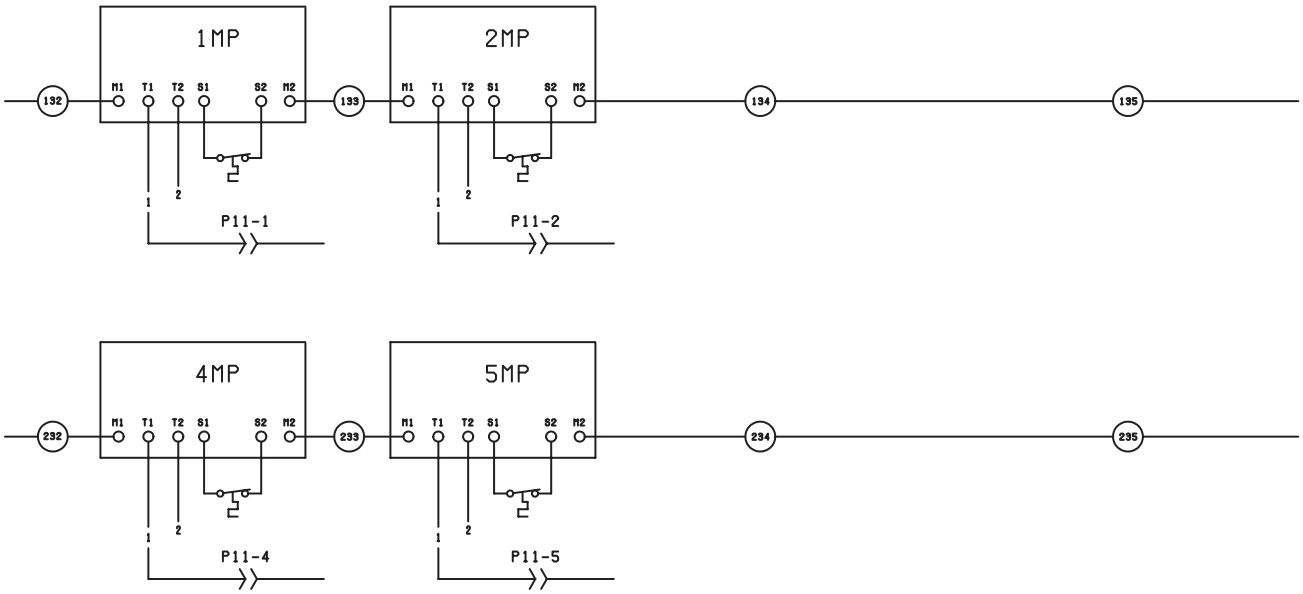
035-19213-104
REV. B

NOTES:
1. FIELD WIRING TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL OTHER APPLICABLE CODES AND SPECIFICATIONS.
2. CONTACTS MUST BE SUITABLE FOR SWITCHING 24VDC, (GOLD CONTACTS RECOMMENDED). WIRING SHALL NOT BE RUN IN THE SAME CONDUIT WITH ANY LINE VOLTAGE (CLASS I) WIRING.
3. TO CYCLE UNIT ON AND OFF AUTOMATICALLY WITH CONTACT SHOWN, INSTALL A CYCLING DEVICE IN SERIES WITH THE FLOW SWITCH. SEE NOTE 2 FOR CONTACT RATING AND WIRING SPECIFICATIONS.
4. TO STOP UNIT (EMERGENCY STOP) WITH CONTACTS OTHER THAN THOSE SHOWN, INSTALL THE STOP CONTACT BETWEEN TERMINALS 5 AND 1. IF A STOP DEVICE IS NOT INSTALLED, A JUMPER MUST BE CONNECTED BETWEEN TERMINALS 5 AND 1. DEVICE MUST HAVE A MINIMUM CONTACT RATING OF 6A AT 115VOLTS A.C.
5. CONTACTS ARE RATED AT 115V, 100VA, RESISTIVE LOAD ONLY, AND MUST BE SUPPRESSED AT LOAD BY USER.
6. SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL WHEN OPTIONAL EQUIPMENT IS USED.
7. OPTIONAL CURRENT READOUT. 5V = 225A.
8. 1MP THRU 6MP ARE CONTAINED IN THEIR RESPECTIVE COMPRESSOR JUNCTION BOXES.

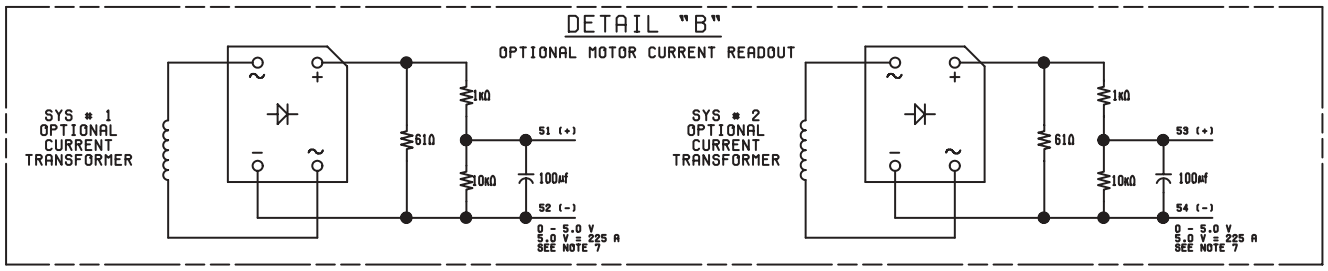
LEGEND

TS	TRANSIENT VOLTAGE SUPRESSION
⬡	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
△	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
○	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
———	WIRING AND COMPONENTS BY YORK
——–——	OPTIONAL EQUIPMENT
— — —	WIRING AND/OR COMPONENTS BY OTHERS

DETAIL "A"



DETAIL "B"
OPTIONAL MOTOR CURRENT READOUT



LD08870

FIG. 17 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL00117E_ - YCAL0173E_

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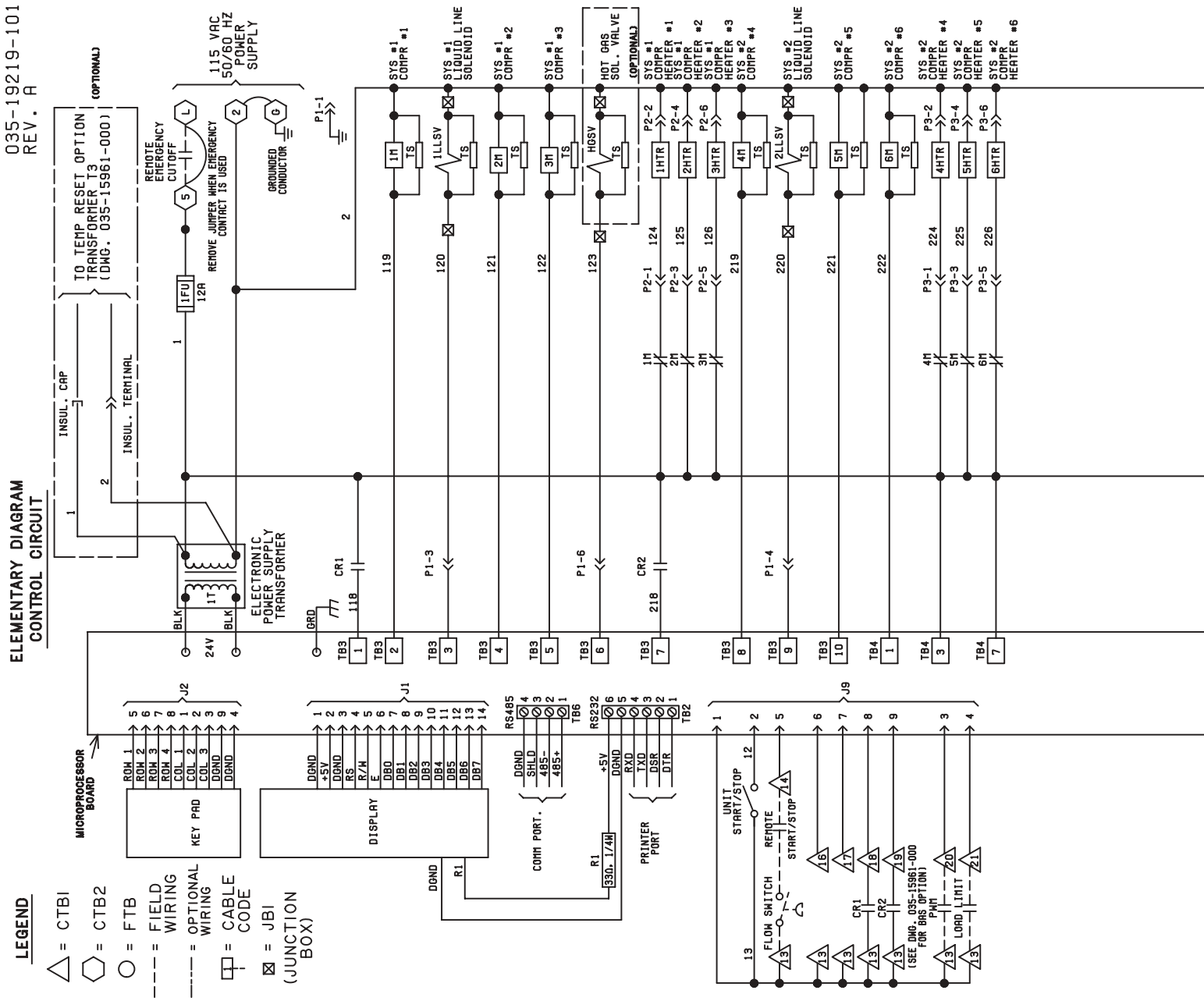
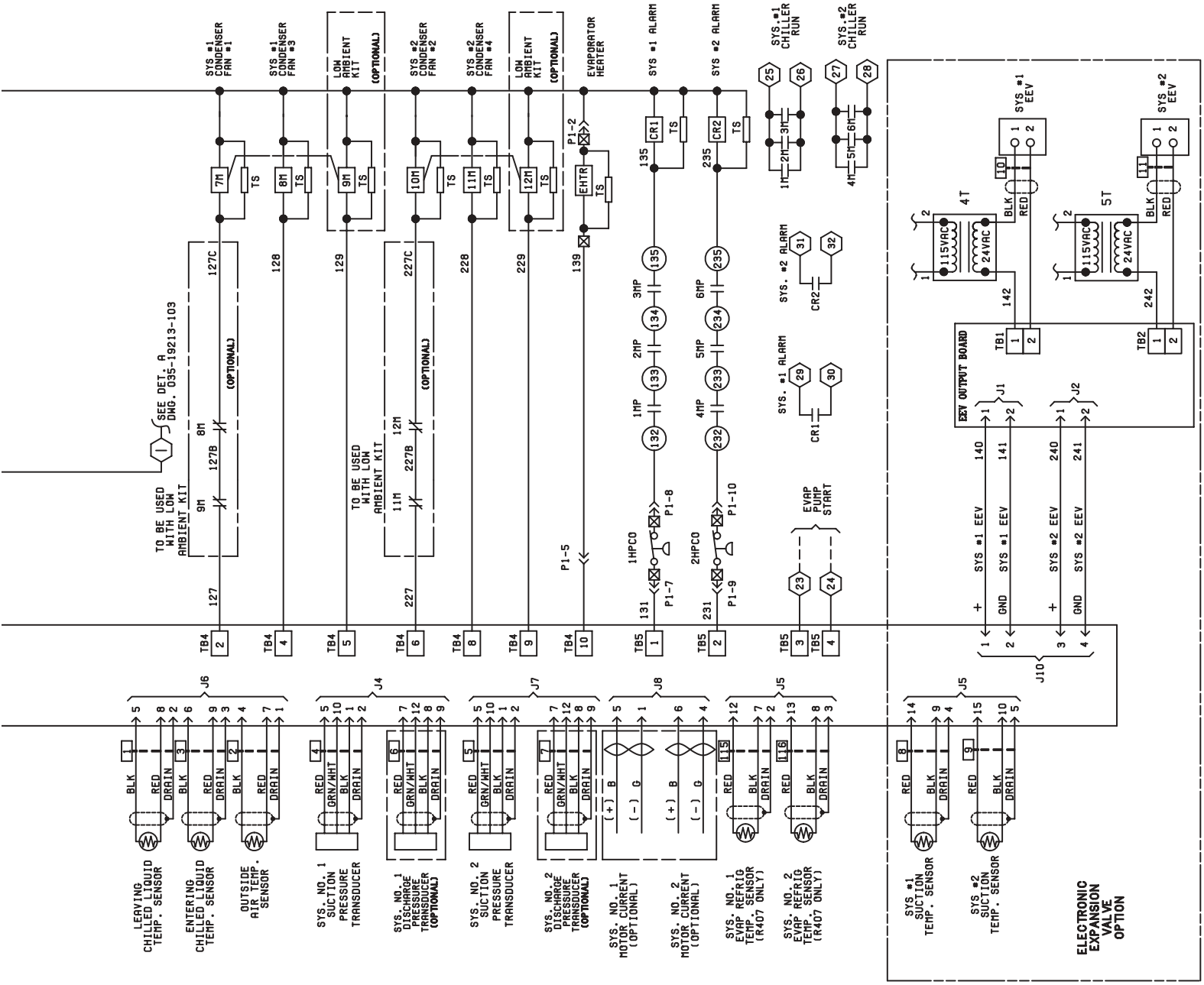
ELEMENTARY DIAGRAM
YCAL0197E_ – YCAL0253E_



LD08871

FIG. 18 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0197E_ - YCAL0253E_

ELEMENTARY DIAGRAM (CON'T)
YCAL0197E_ – YCAL0253E_



LD08872

ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0197E_ - YCAL0253E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0197E_ – YCAL0253E_

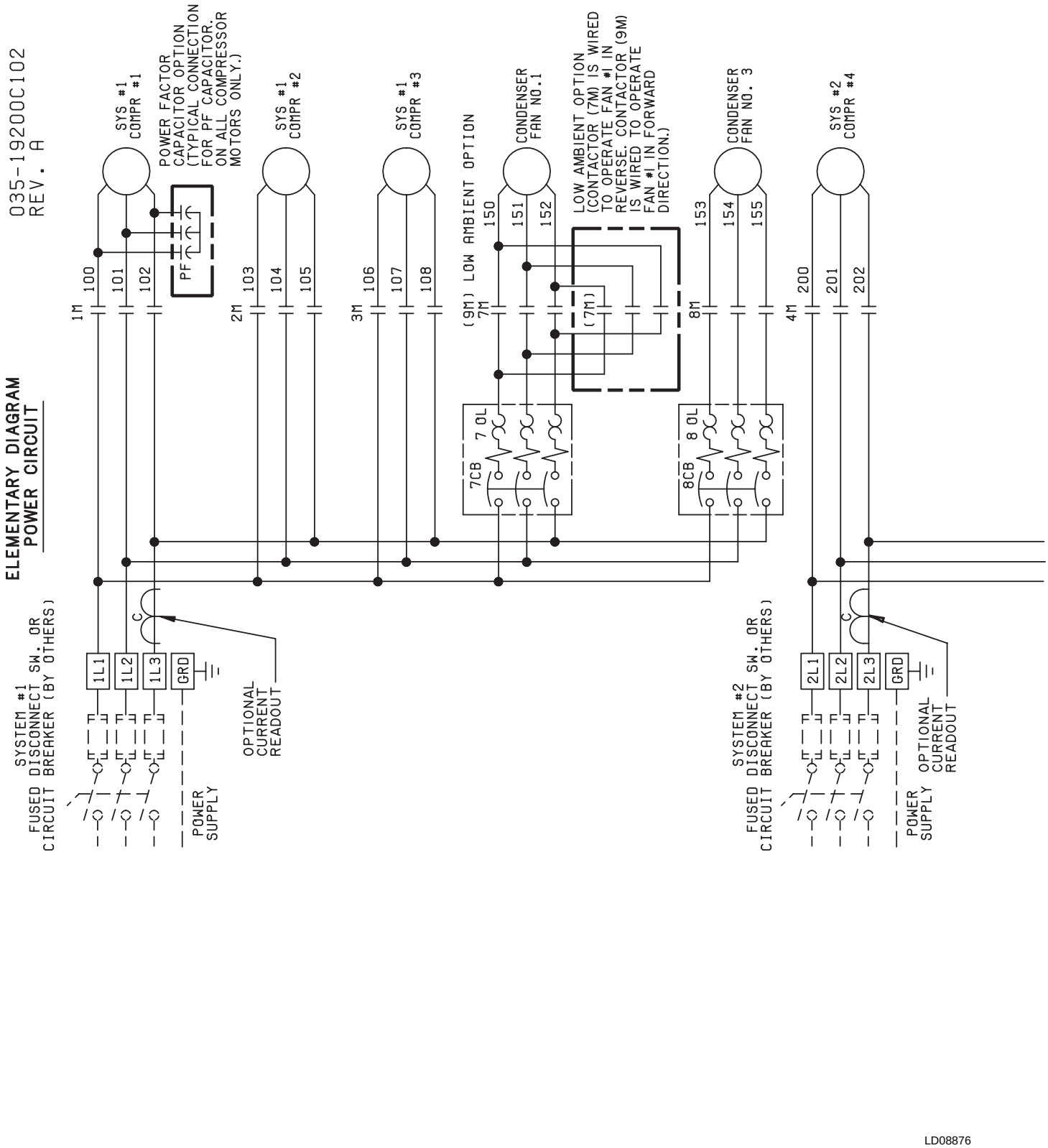
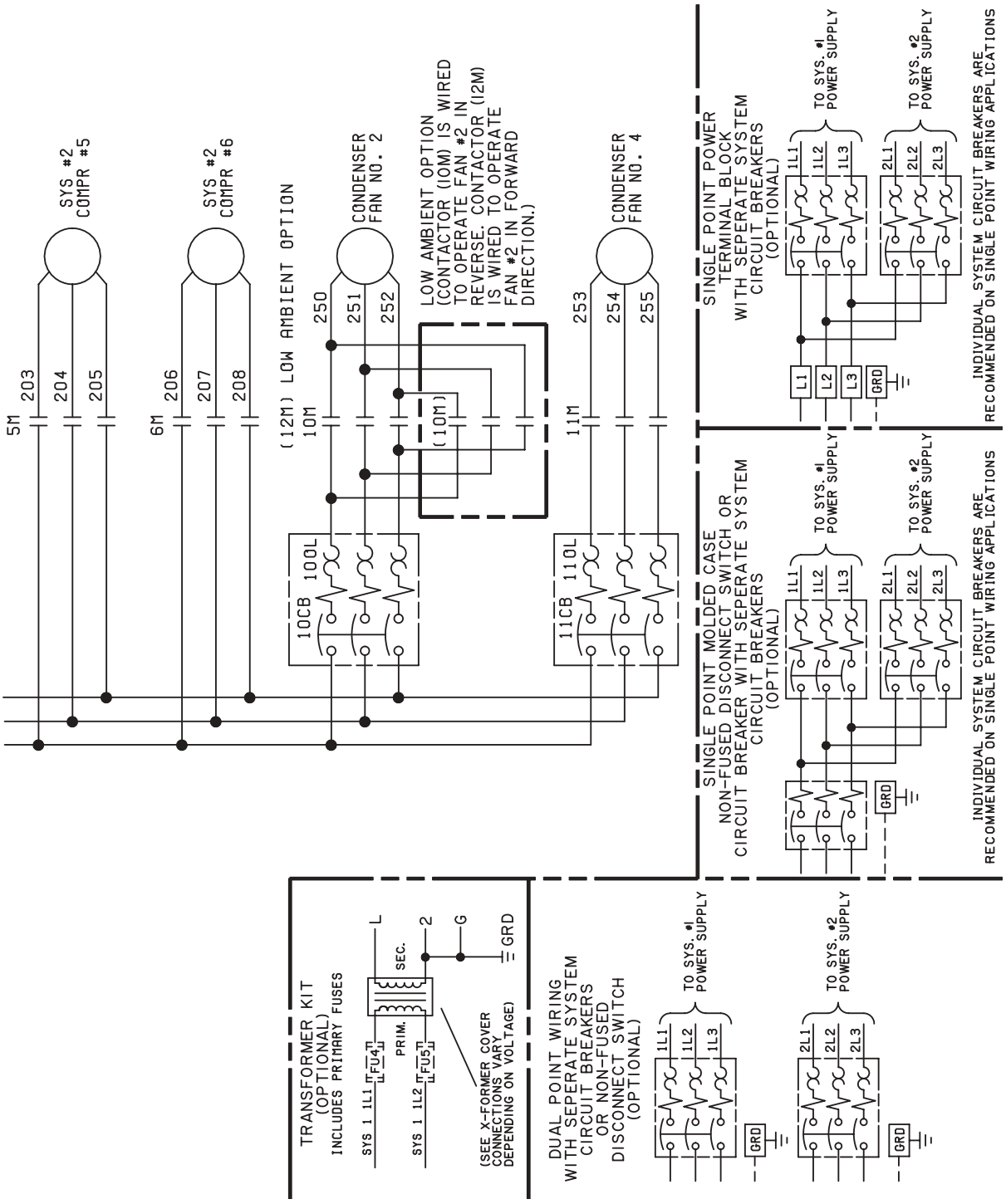


FIG. 19 – ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0197E_ - YCAL0253E_

ELEMENTARY DIAGRAM (CON'T)
YCAL0197E_ – YCAL0253E_



LD08877

ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0197E_ - YCAL0253E_ (CON'T)

CONNECTION DIAGRAM
YCAL0197E_ – YCAL0253E_

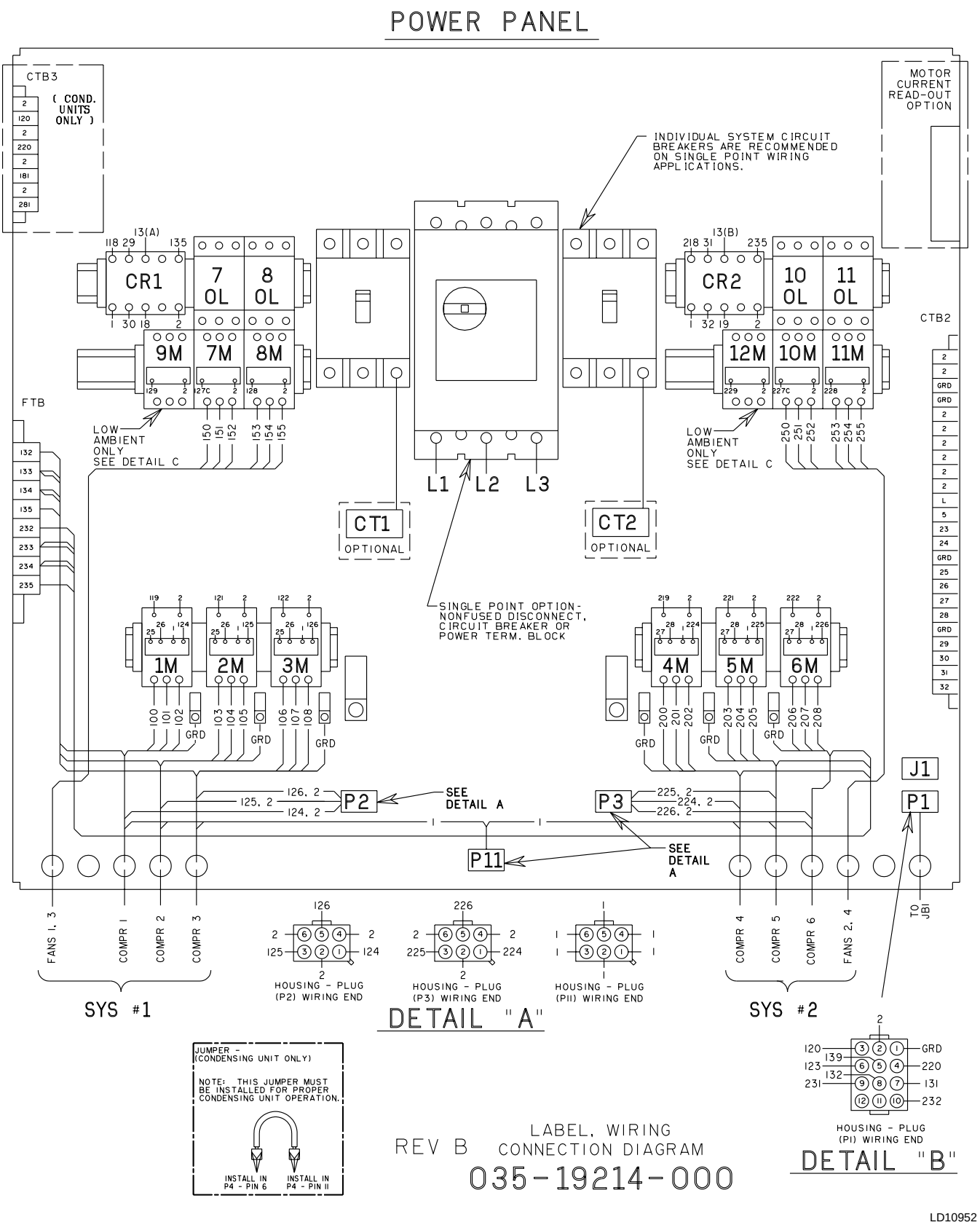


FIG. 20 – CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0197E_ - YCAL0253E_

CONNECTION DIAGRAM (CON'T)
YCAL0197E_ – YCAL0253E_

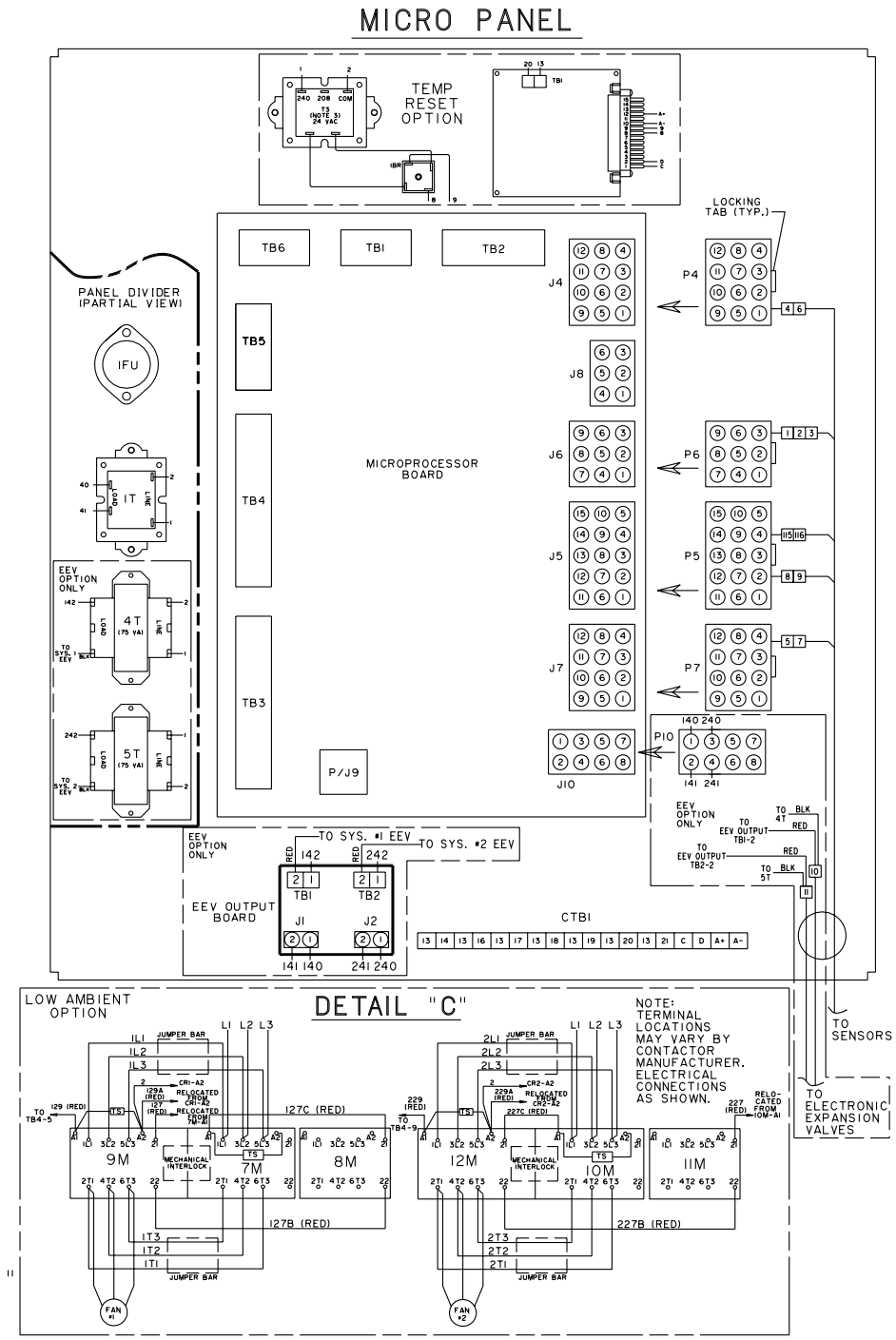


TABLE II

BOARD PLUG NO.	CABLE ITEM NO.	CABLE CODE	WIRE COLOR	PLUG PIN NO.	FUNCTION	LEGEND
MICRO P4	19	4	RED	5	SYS #1 SUCTION PRESSURE	ISPT
			WHT	10		
			BLK	1		
			DRAIN	2		
	(OPTIONAL KIT)	6	RED	7	SYS #1 DISCHARGE PRESSURE	IDPT
			WHT	12		
			BLK	8		
			DRAIN	9		
MICRO P6	19	1	BLK	5	LEAVING WATER TEMP	LWT
			RED	8		
			DRAIN	2		
	19	3	BLK	6	ENTERING WATER TEMP	EWT
			RED	9		
			DRAIN	3		
	19	2	BLK	4	OUTSIDE AIR TEMP.	OAT
			RED	7		
			DRAIN	1		
MICRO P7	19	5	RED	5	SYS #2 SUCTION PRESSURE	2SPT
			WHT	10		
			BLK	1		
			DRAIN	2		
	(OPTIONAL KIT)	7	RED	7	SYS #2 DISCHARGE PRESSURE	2DPT
			WHT	12		
			BLK	8		
			DRAIN	9		
MICRO P5	STANDARD 40'C	15	RED	12	SYS #1 LIQ. TEMP. SENSOR	ILTS
			BLK	7		
			DRAIN	2		
	STANDARD 40'C	16	RED	13	SYS #2 LIQ. TEMP. SENSOR	2LTS
			BLK	8		
			DRAIN	3		
	(OPTIONAL KIT)	8	RED	14	SYS #1 SUCTION TEMP. SENSOR	ISTS
			BLK	9		
			DRAIN	4		
	(OPTIONAL KIT)	9	RED	15	SYS #2 SUCTION TEMP. SENSOR	2STS
			BLK	10		
			DRAIN	5		
EEV OUTPUT BOARD AND TRANS FORMER 4T, 5T (OPTIONAL)	(OPTIONAL KIT)	10	BLK	4T (TRANS)	SYS #1 EEV OUTPUT	IEEV
			RED	EEV OUTPUT BOARD TBI-2		
	(OPTIONAL KIT)	11	BLK	5T (TRANS)	SYS #2 EEV OUTPUT	2EEV
			RED	EEV OUTPUT BOARD TB2-2		

NOTE: CABLES AND PLUGS (P4, P6 & P7) ARE SUPPLIED IN KIT (ITEM 19)

CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0197E_ - YCAL0253E_ (CON'T)

LD10953

ELEMENTARY DIAGRAM
YCAL0197E_ – YCAL0253E_

ELEMENTARY DIAGRAM
MIDDLE MARKET
STANDARD AND REMOTE EVAPORATOR UNITS

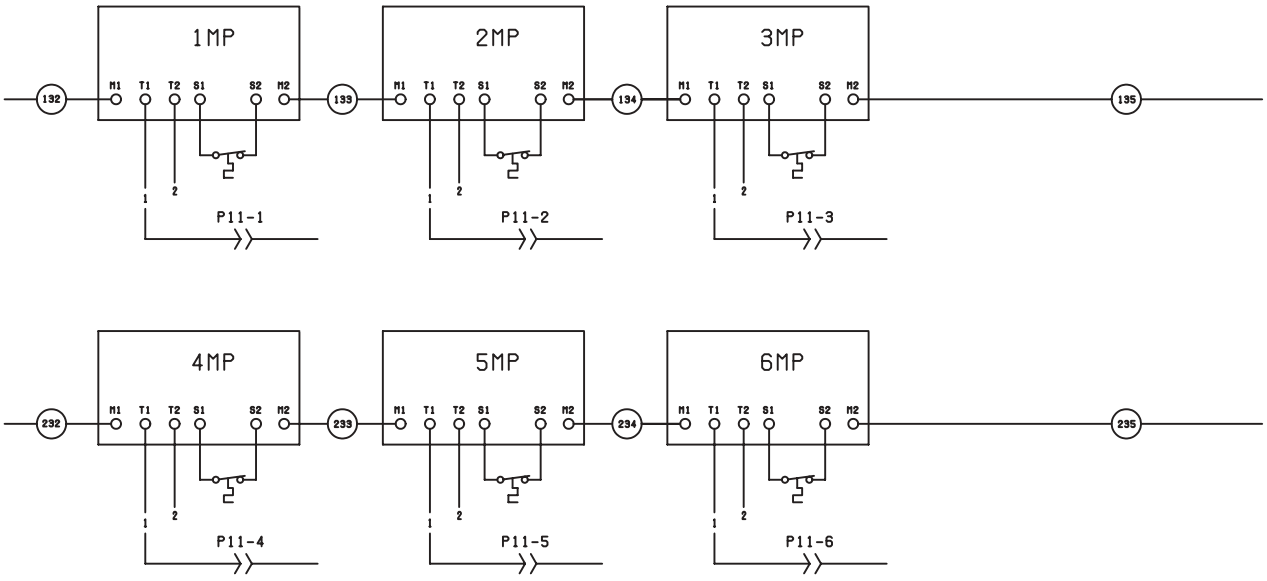
035-19213-103
REV. B

NOTES:
1. FIELD WIRING TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL OTHER APPLICABLE CODES AND SPECIFICATIONS.
2. CONTACTS MUST BE SUITABLE FOR SWITCHING 24VDC. (GOLD CONTACTS RECOMMENDED). WIRING SHALL NOT BE RUN IN THE SAME CONDUIT WITH ANY LINE VOLTAGE (CLASS I) WIRING.
3. TO CYCLE UNIT ON AND OFF AUTOMATICALLY WITH CONTACT SHOWN, INSTALL A CYCLING DEVICE IN SERIES WITH THE FLOW SWITCH. SEE NOTE 2 FOR CONTACT RATING AND WIRING SPECIFICATIONS.
4. TO STOP UNIT (EMERGENCY STOP) WITH CONTACTS OTHER THAN THOSE SHOWN, INSTALL THE STOP CONTACT BETWEEN TERMINALS 5 AND 1. IF A STOP DEVICE IS NOT INSTALLED, A JUMPER MUST BE CONNECTED BETWEEN TERMINALS 5 AND 1. DEVICE MUST HAVE A MINIMUM CONTACT RATING OF 6A AT 115VOLTS A.C.
5. CONTACTS ARE RATED AT 115V, 100VA, RESISTIVE LOAD ONLY, AND MUST BE SUPPRESSED AT LOAD BY USER.
6. SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL WHEN OPTIONAL EQUIPMENT IS USED.
7. OPTIONAL CURRENT READOUT. 5V = 225A.
8. IMP THRU 6MP ARE CONTAINED IN THEIR RESPECTIVE COMPRESSOR JUNCTION BOXES.

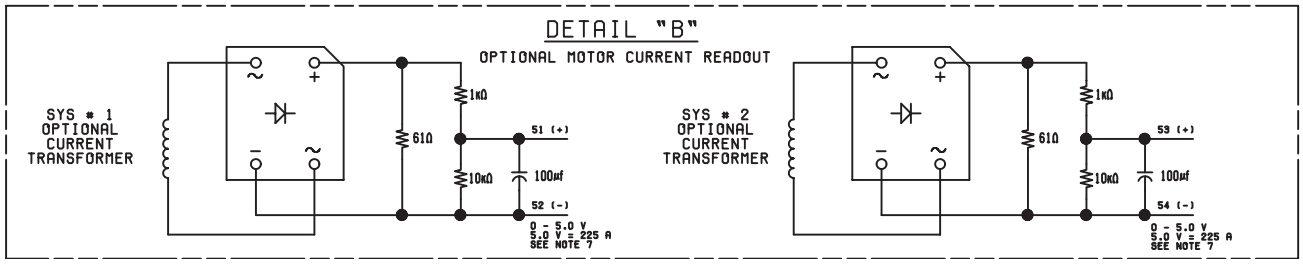
LEGEND

TS	TRANSIENT VOLTAGE SUPRESSION
⬡	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
△	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
○	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
———	WIRING AND COMPONENTS BY YORK
——–——	OPTIONAL EQUIPMENT
— — —	WIRING AND/OR COMPONENTS BY OTHERS

DETAIL "A"



DETAIL "B"
OPTIONAL MOTOR CURRENT READOUT



LD08875

FIG. 21 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0197E_ - YCAL0253E_

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ELEMENTARY DIAGRAM
YCAL0287E_

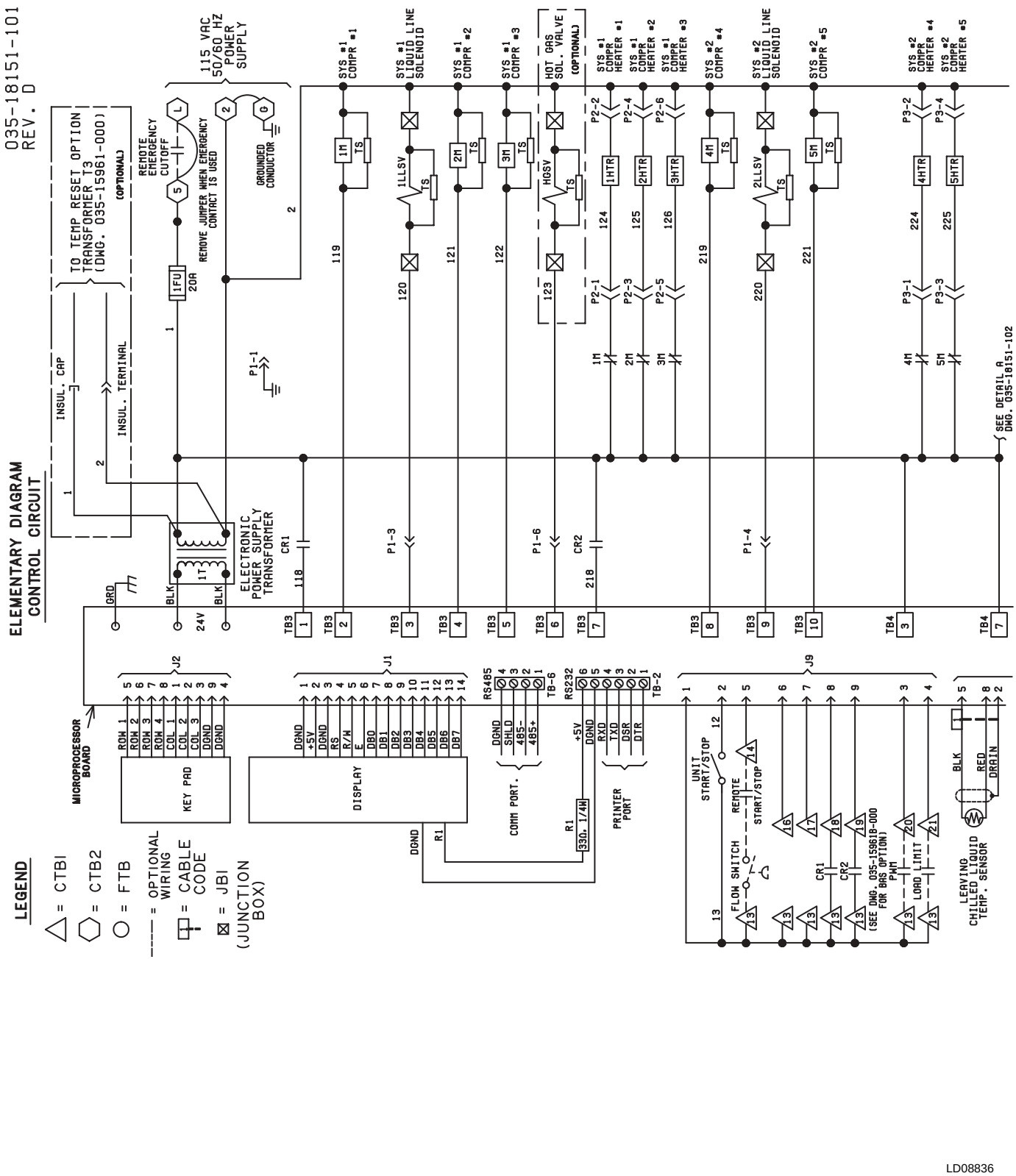
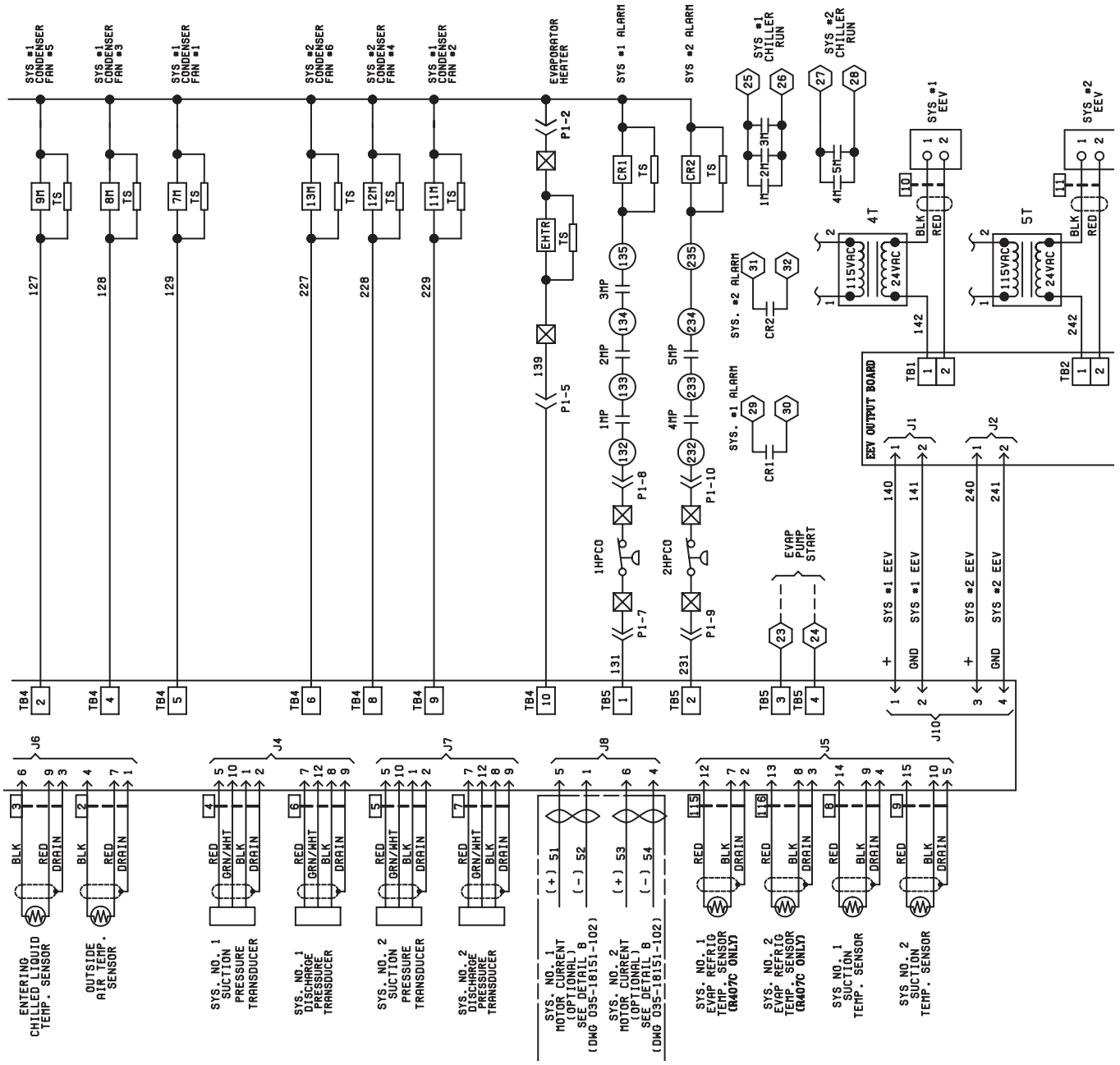


FIG. 22 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0287E_

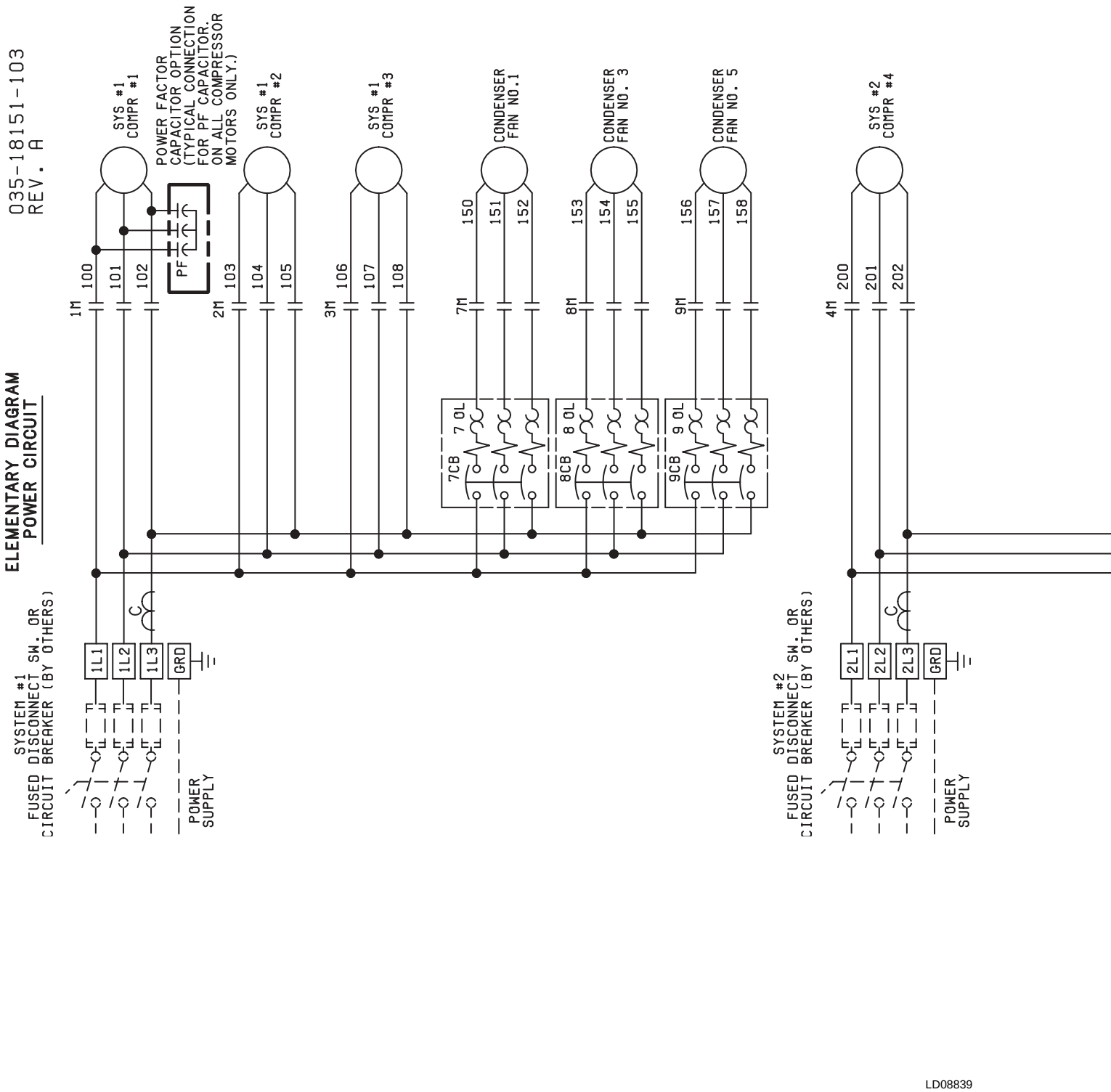
ELEMENTARY DIAGRAM (CON'T)
YCAL0287E_



LD08837

ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0287E_ (CON'T)

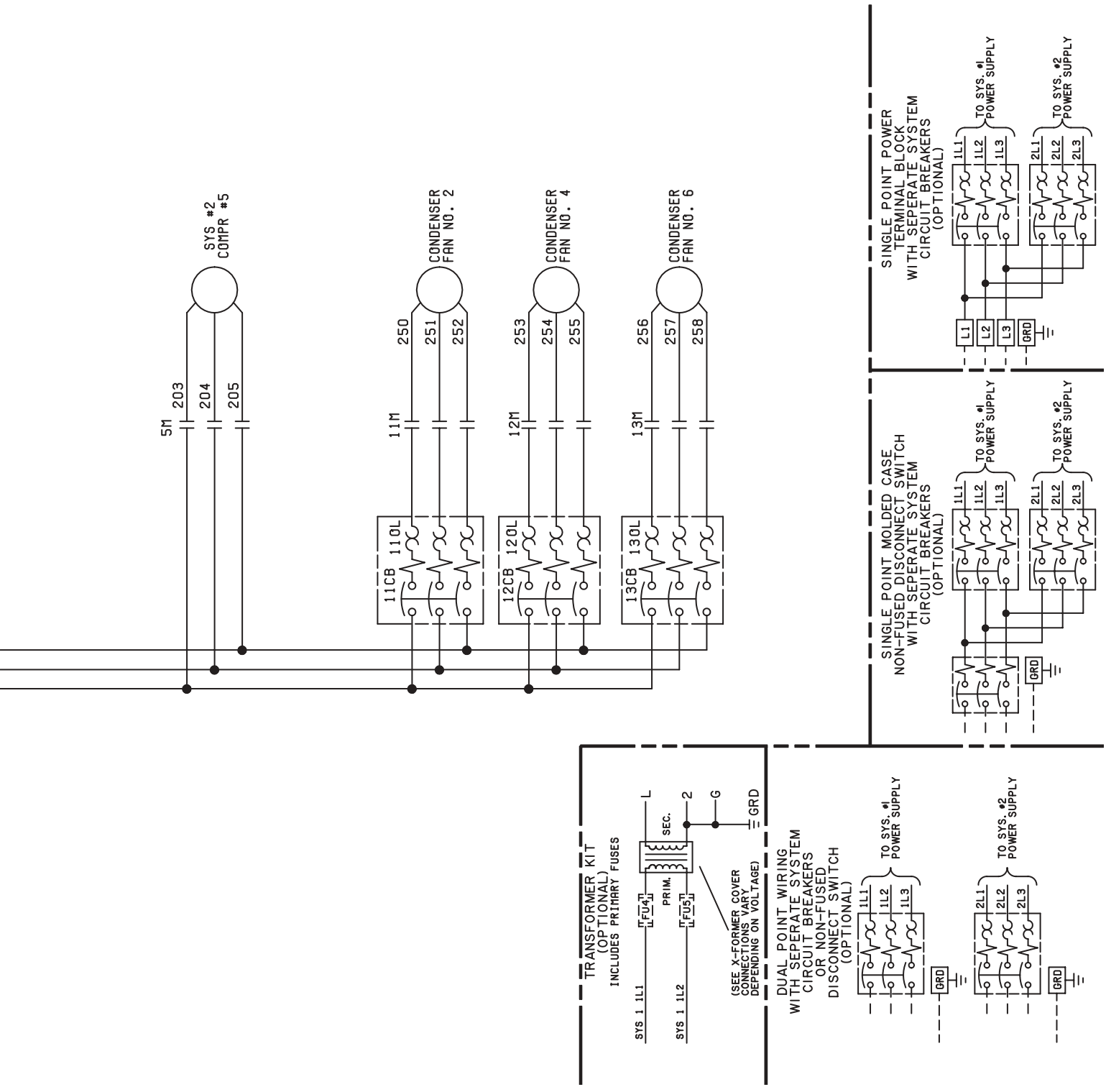
ELEMENTARY DIAGRAM
YCAL0287E_



LD08839

FIG. 23 – ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0287E_

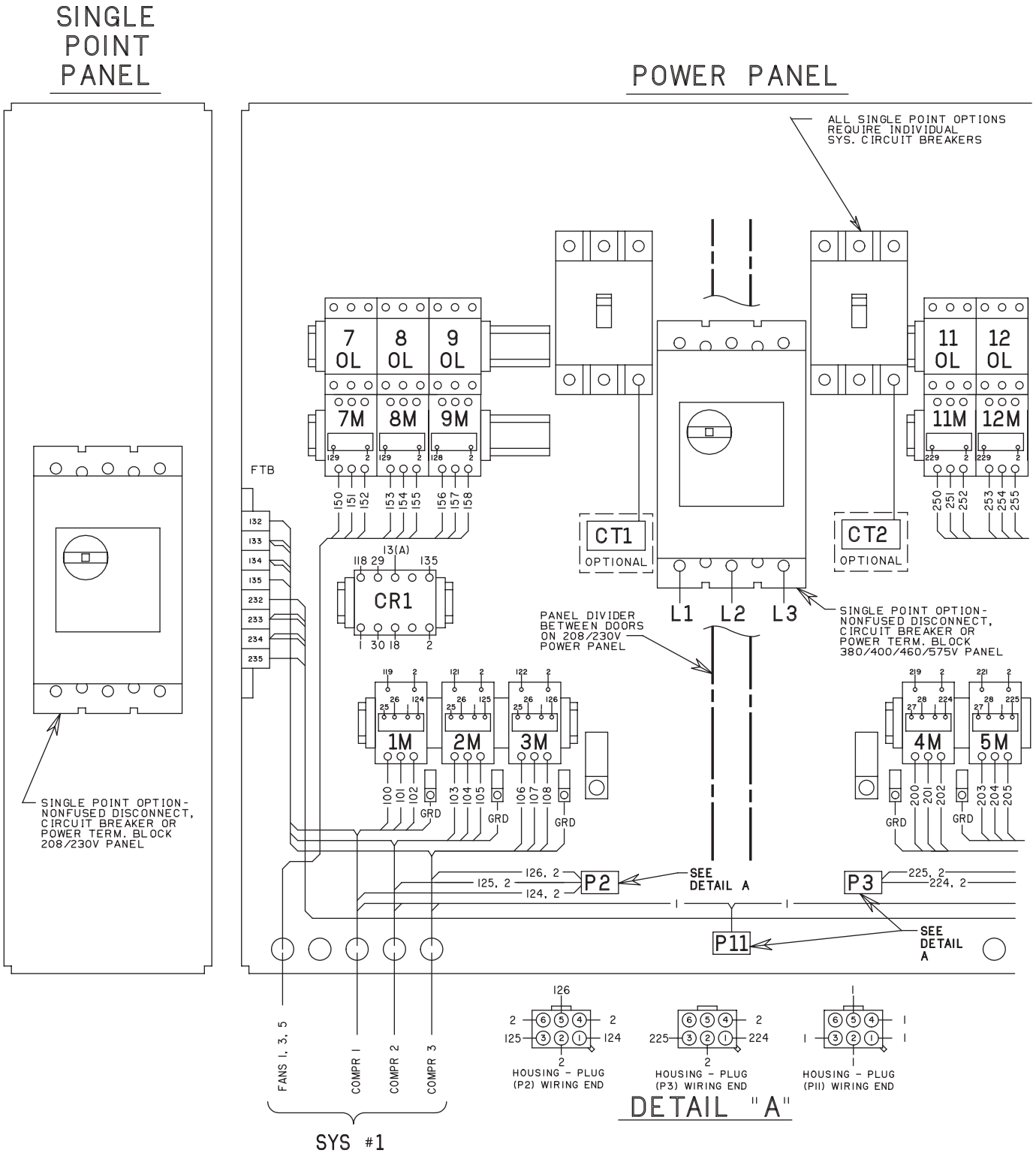
ELEMENTARY DIAGRAM (CON'T)
YCAL0287E_



LD08840

ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0287E_ (CON'T)

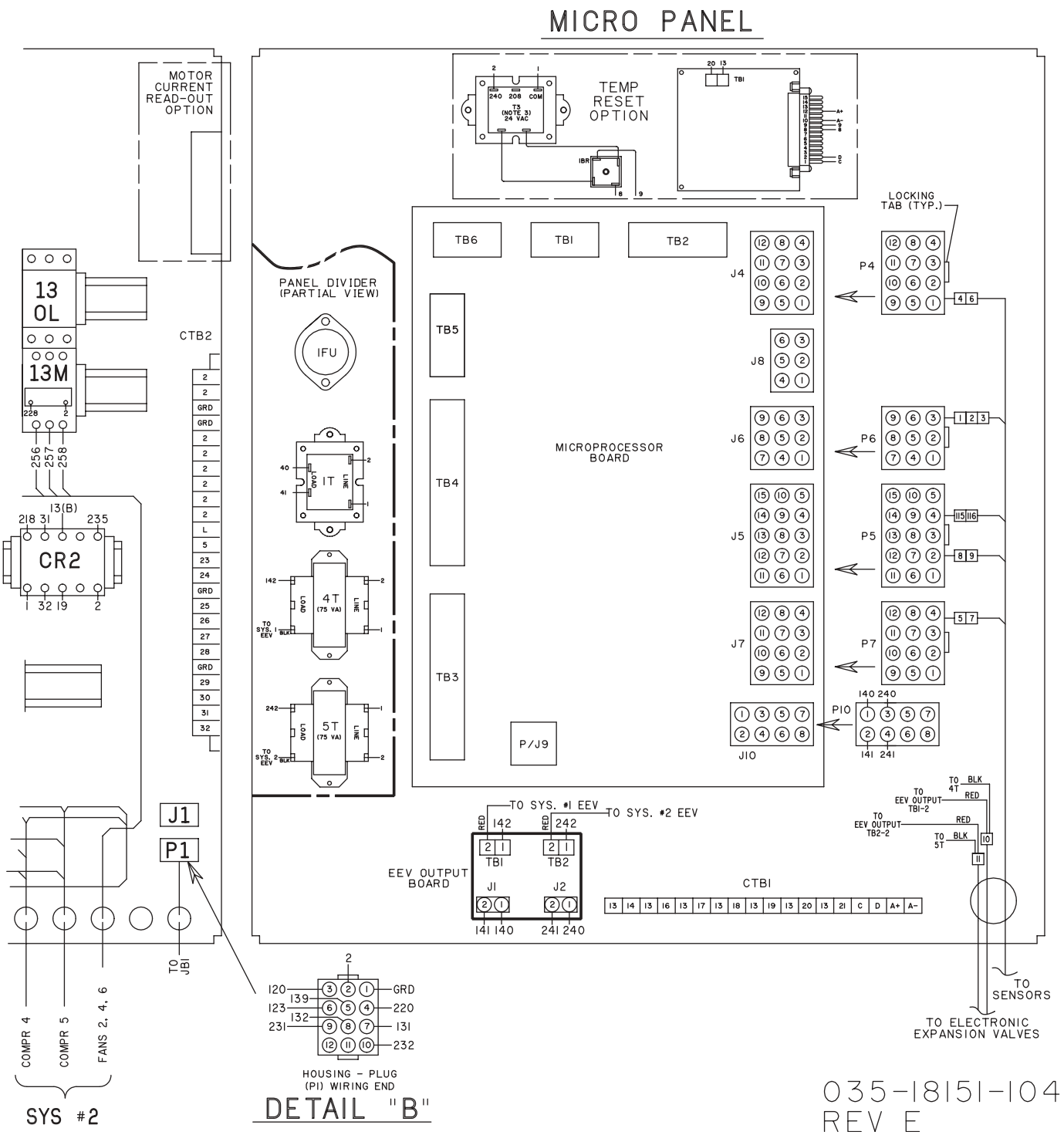
CONNECTION DIAGRAM
YCAL0287E_



LD08841

FIG. 24 – CONNECTION DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0287E_

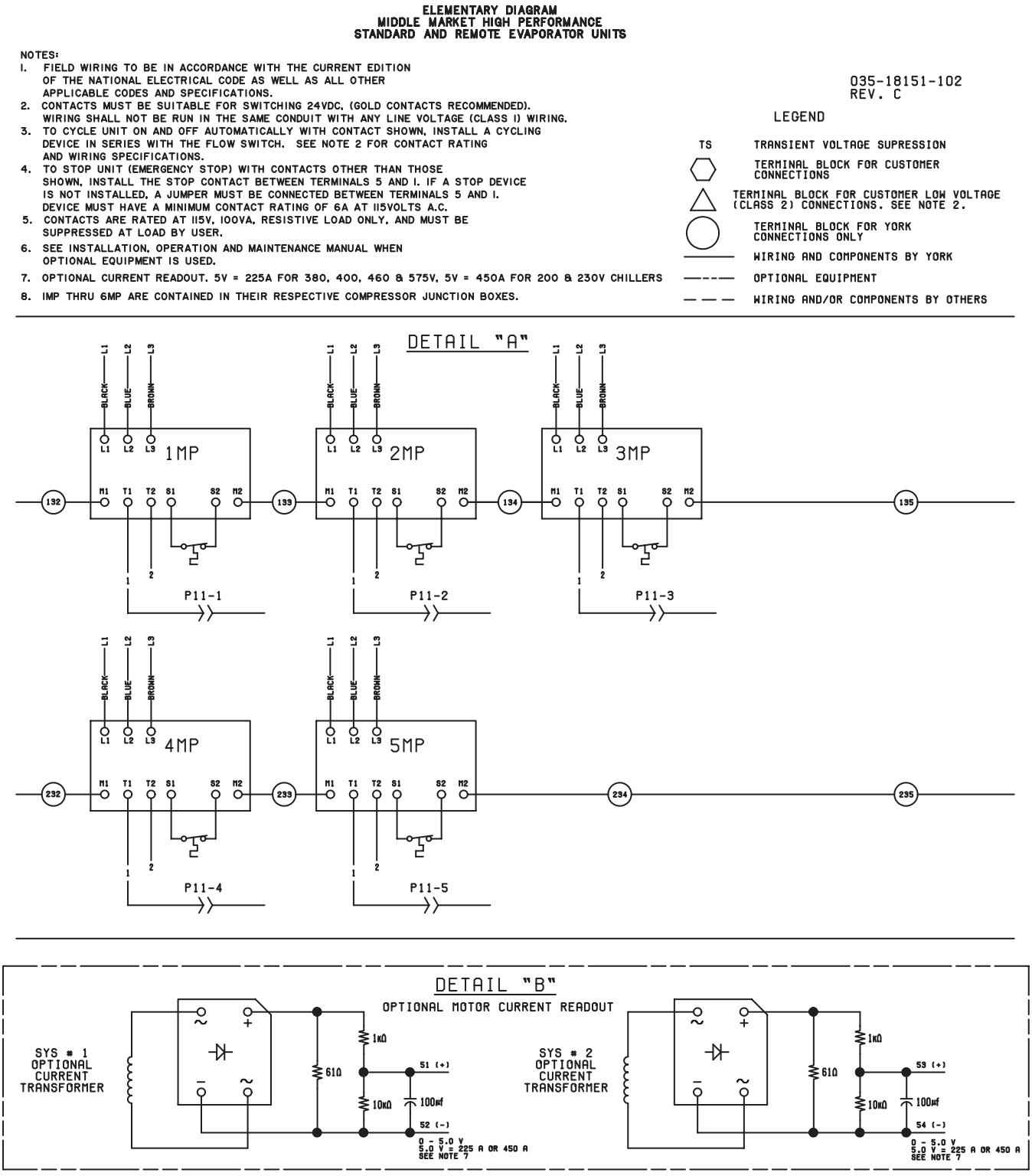
CONNECTION DIAGRAM (CON'T)
YCAL0287E_



LD08842

CONNECTION DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0287E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0287E_



LD08838

FIG. 25 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0287E_

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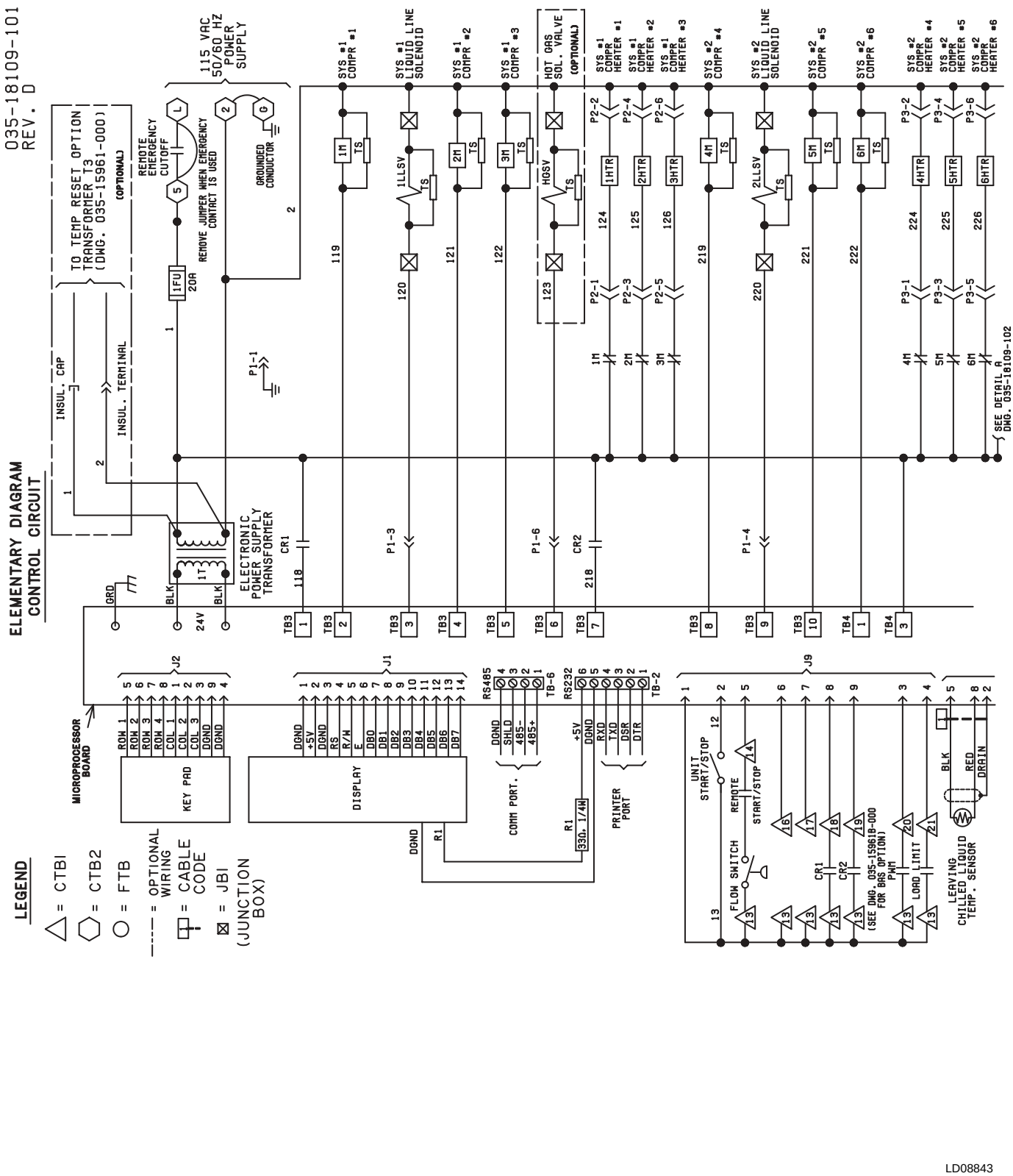
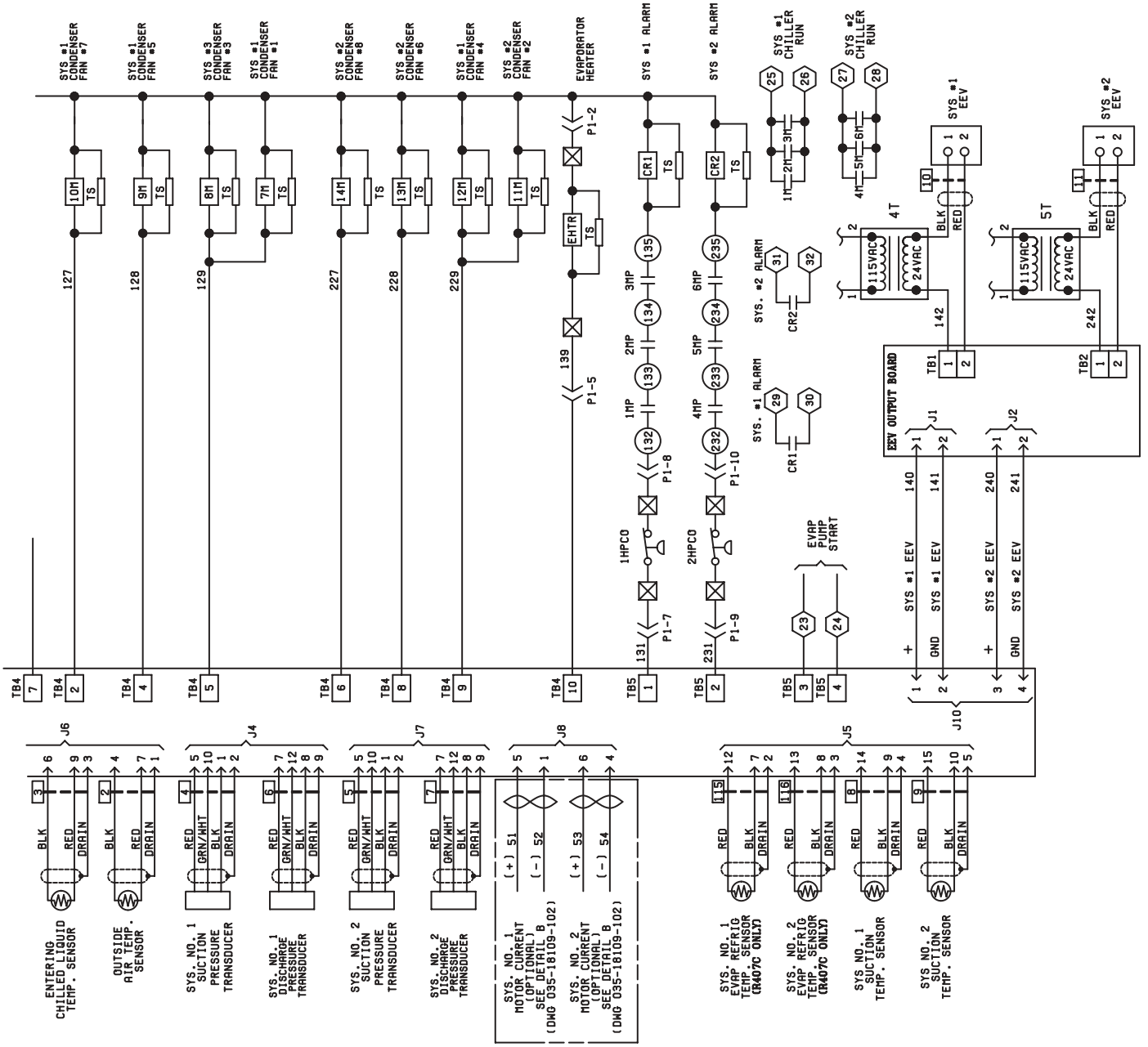
ELEMENTARY DIAGRAM
YCAL0317E_ – YCAL0377E_



LD08843

FIG. 26 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0317E_ - YCAL0377E_

ELEMENTARY DIAGRAM (CON'T)
YCAL0317E_ – YCAL0377E_



LD08844

ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0317E_ - YCAL0377E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0317E_ – YCAL0377E_

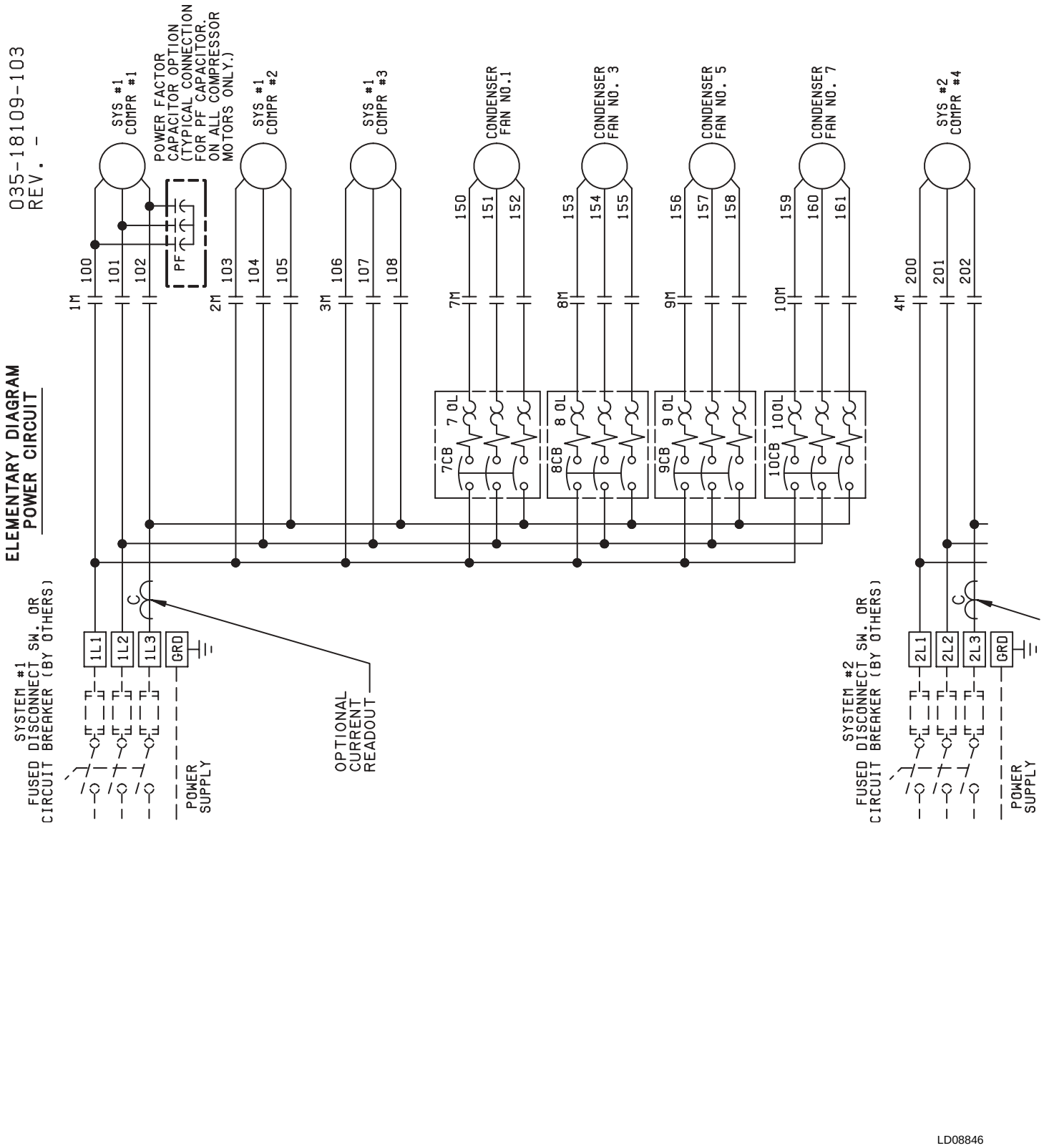
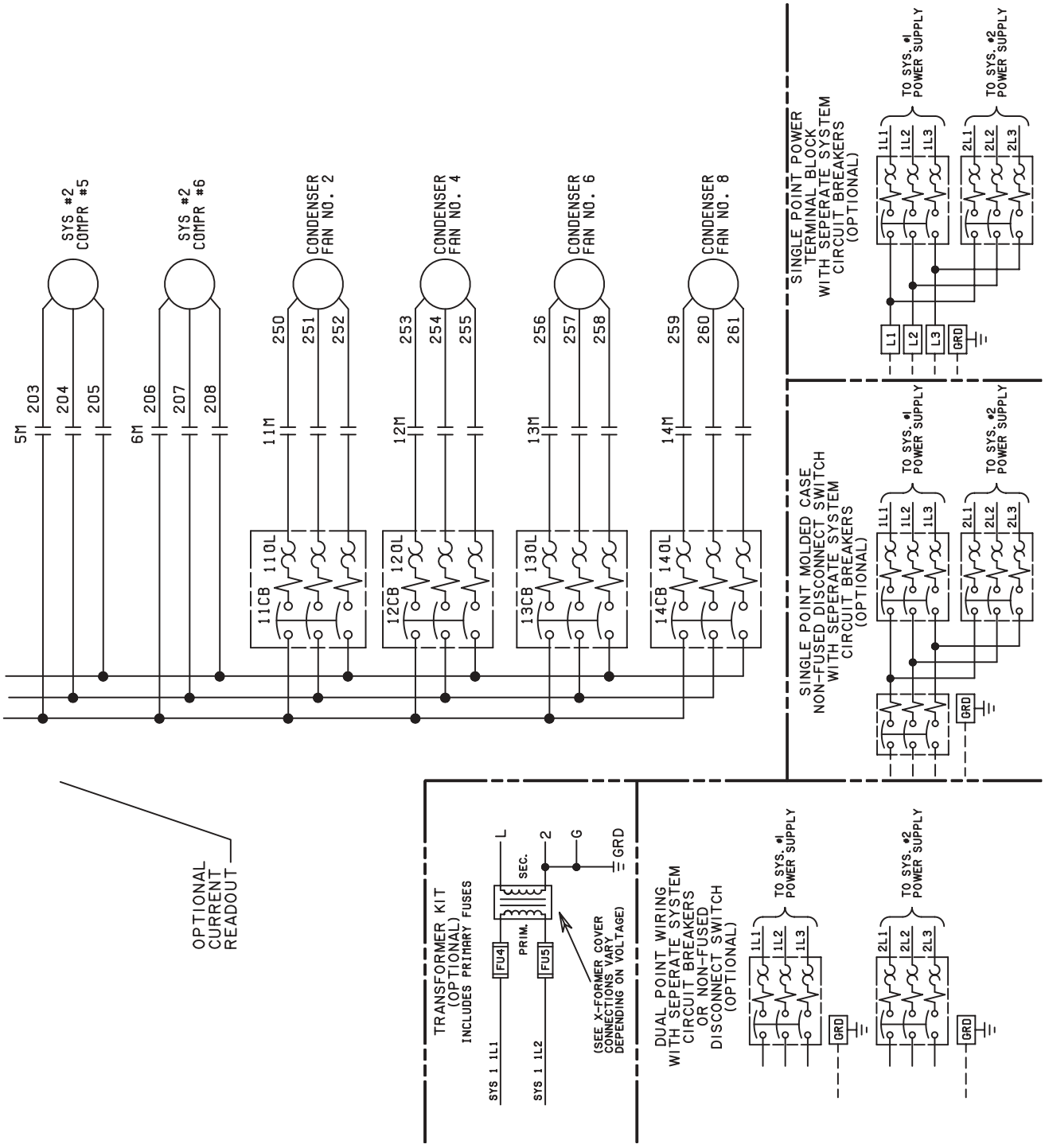


FIG. 27 – ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0317E_ - YCAL0377E_

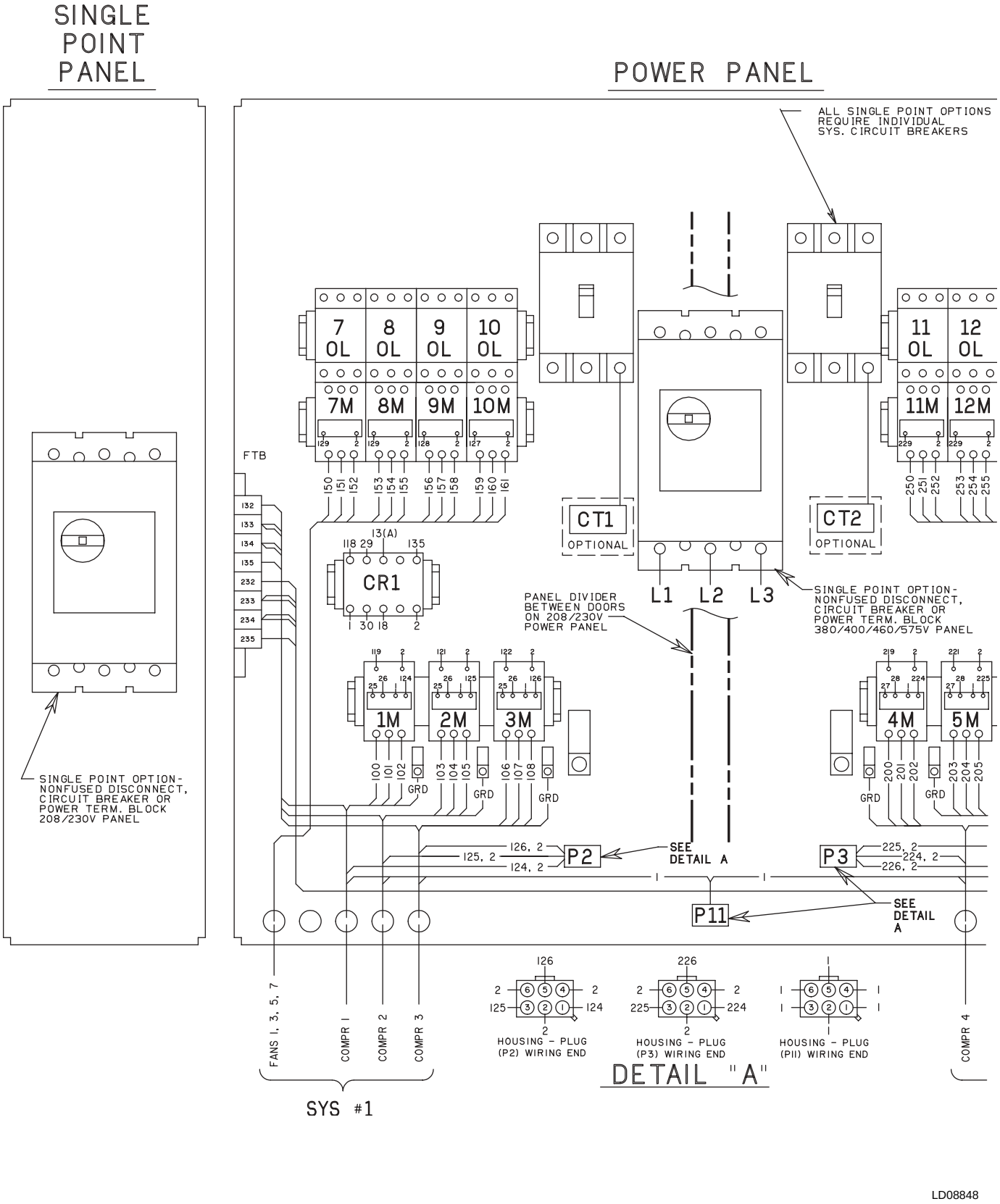
ELEMENTARY DIAGRAM (CON'T)
YCAL0317E_ – YCAL0377E_



LD08847

ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0317E_ - YCAL0377E_ (CON'T)

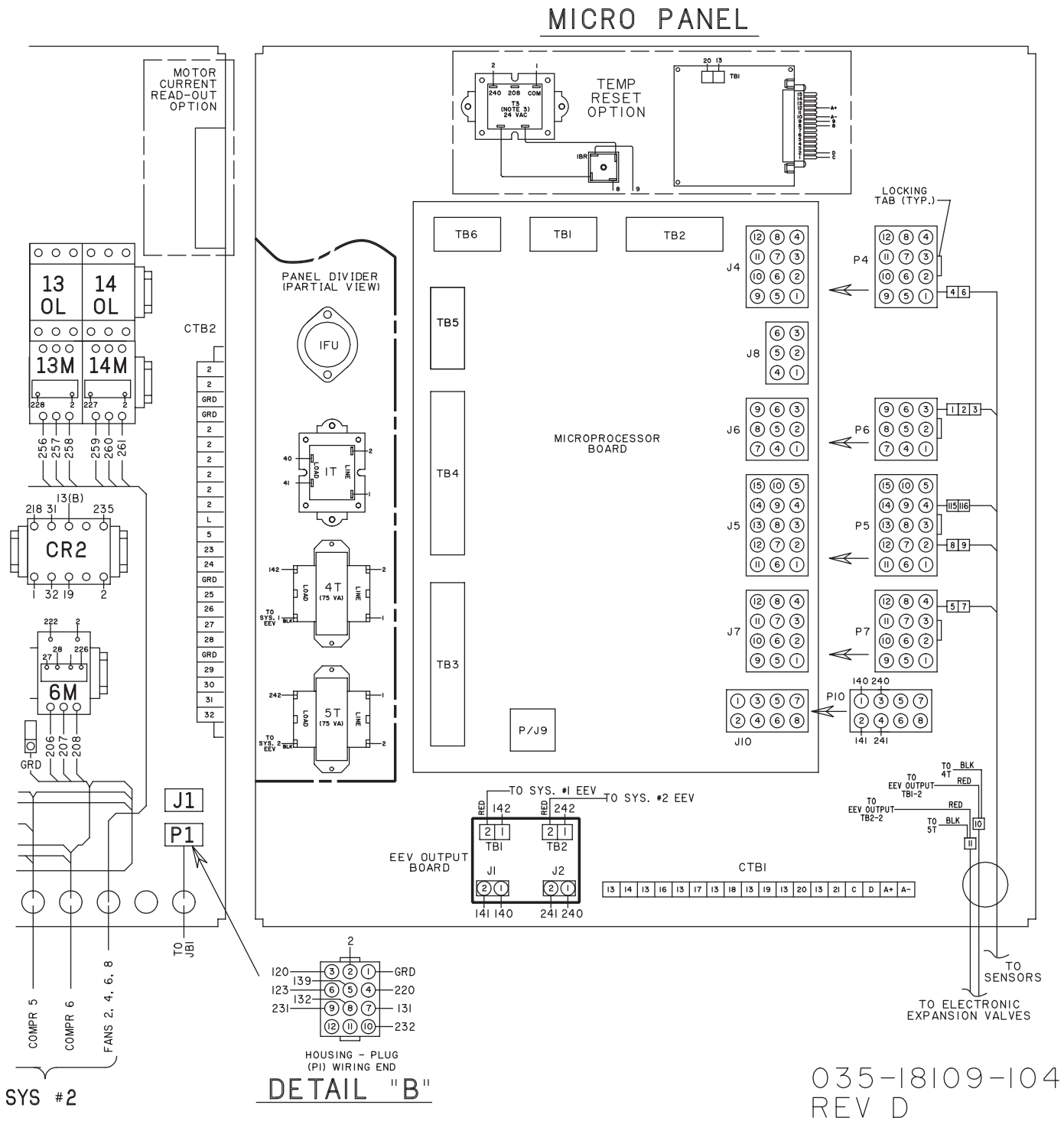
CONNECTION DIAGRAM
YCAL0317E_ – YCAL0377E_



LD08848

FIG. 28 – CONNECTION DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0317E_ - YCAL0377E_

CONNECTION DIAGRAM (CON'T)
YCAL0317E_ – YCAL0377E_



LD08849

CONNECTION DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0317E_ - YCAL0377E_ (CON'T)

ELEMENTARY DIAGRAM
YCAL0317E_ – YCAL0377E_

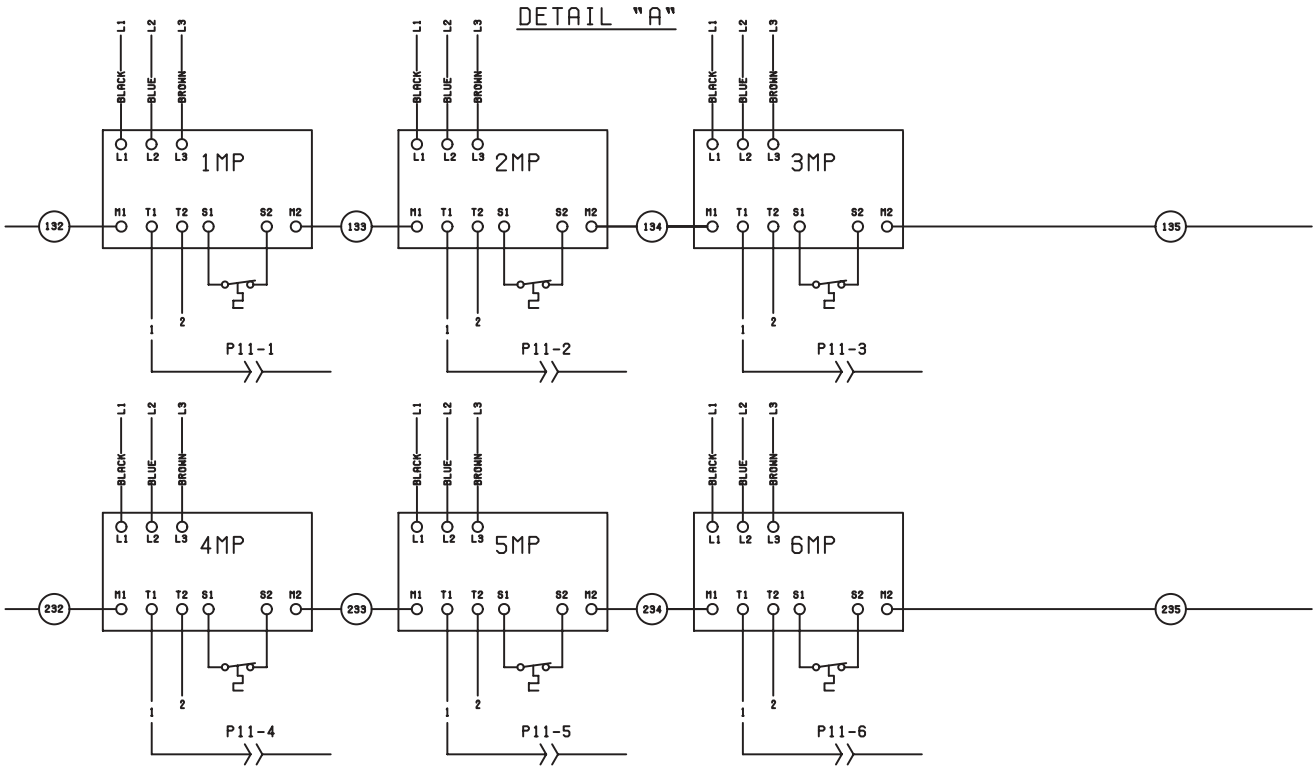
ELEMENTARY DIAGRAM
MIDDLE MARKET HIGH PERFORMANCE
STANDARD AND REMOTE EVAPORATOR UNITS

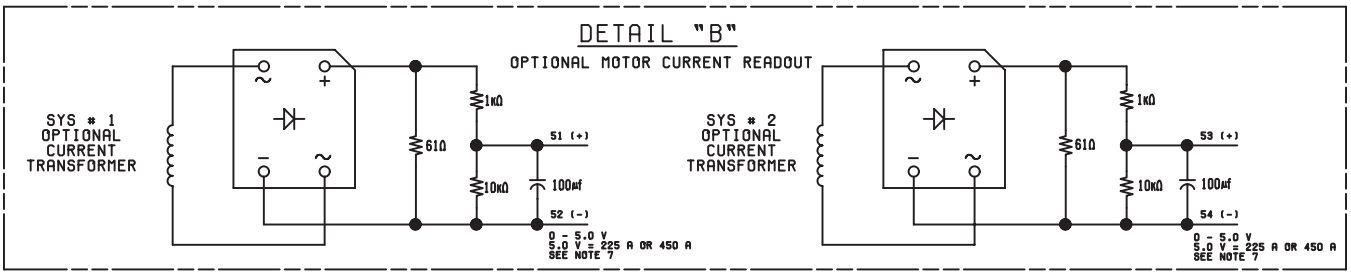
NOTES:
1. FIELD WIRING TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL OTHER APPLICABLE CODES AND SPECIFICATIONS.
2. CONTACTS MUST BE SUITABLE FOR SWITCHING 24VDC, (GOLD CONTACTS RECOMMENDED). WIRING SHALL NOT BE RUN IN THE SAME CONDUIT WITH ANY LINE VOLTAGE (CLASS I) WIRING.
3. TO CYCLE UNIT ON AND OFF AUTOMATICALLY WITH CONTACT SHOWN, INSTALL A CYCLING DEVICE IN SERIES WITH THE FLOW SWITCH. SEE NOTE 2 FOR CONTACT RATING AND WIRING SPECIFICATIONS.
4. TO STOP UNIT (EMERGENCY STOP) WITH CONTACTS OTHER THAN THOSE SHOWN, INSTALL THE STOP CONTACT BETWEEN TERMINALS 5 AND 1. IF A STOP DEVICE IS NOT INSTALLED, A JUMPER MUST BE CONNECTED BETWEEN TERMINALS 5 AND 1. DEVICE MUST HAVE A MINIMUM CONTACT RATING OF 6A AT 115VOLTS A.C.
5. CONTACTS ARE RATED AT 115V, 100VA, RESISTIVE LOAD ONLY, AND MUST BE SUPPRESSED AT LOAD BY USER.
6. SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL WHEN OPTIONAL EQUIPMENT IS USED.
7. OPTIONAL CURRENT READOUT. 5V = 225A FOR 380, 400, 460 & 575V. 5V = 450A FOR 200 & 230V CHILLERS
8. IMP THRU 6MP ARE CONTAINED IN THEIR RESPECTIVE COMPRESSOR JUNCTION BOXES.

035-18109-102
REV. B

LEGEND

TS	TRANSIENT VOLTAGE SUPRESSION
⬡	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
△	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
◯	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
———	WIRING AND COMPONENTS BY YORK
——-——	OPTIONAL EQUIPMENT
– – – –	WIRING AND/OR COMPONENTS BY OTHERS





LD08845

FIG. 29 – ELEMENTARY DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0317E_ - YCAL0377E_

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