



**AIR-COOLED LIQUID CHILLERS
HERMETIC SCROLL**

WIRING DIAGRAM

New Release

Form 150.62-W6 (303)

**YCAL0014E_ - YCAL0124E_
R-22 & HFC-407C
STYLE C
(60 Hz)**



29224(R)A



Metric Conversions

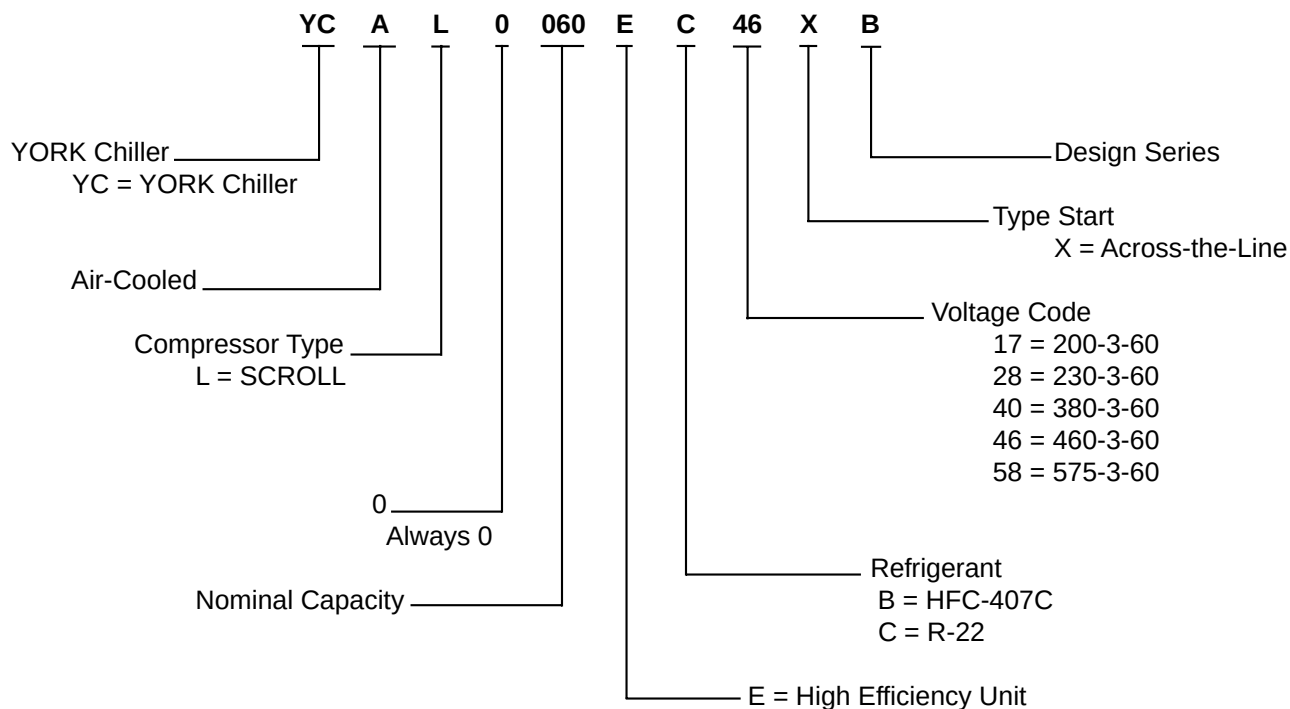


200-3-60
230-3-60
380-3-60
460-3-60
575-3-60
MODELS ONLY

TABLE OF CONTENTS

	<u>PAGE</u>
TYPICAL NOMENCLATURE.....	3
ELECTRICAL NOTES AND LEGEND.....	4
ELECTRICAL DATA.....	5
POWER WIRING.....	14
CONTROL WIRING.....	18
ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0014E_ - YCAL0030E_.....	20
ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0014E_ - YCAL0030E_.....	22
CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0014E_ - YCAL0030E_.....	24
ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0014E_ - YCAL0030E_.....	26
ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0034E_.....	28
ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0034E_.....	30
CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0034E_.....	32
ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0034E_.....	34
ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0040E_ - YCAL0060E_.....	36
ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0040E_ - YCAL0060E_.....	38
CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0040E_ - YCAL0060E_.....	40
ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0040E_ - YCAL0060E_.....	42
ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0064E_ - YCAL0080E_.....	44
ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0064E_ - YCAL0080E_.....	46
CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0064E_ - YCAL0080E_.....	48
ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0064E_ - YCAL0080E_.....	50
ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0090E_ - YCAL0094E_.....	52
ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0090E_ - YCAL0094E_.....	54
CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0090E_ - YCAL0094E_.....	56
ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0090E_ - YCAL0094E_.....	58
ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0104E_.....	60
ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0104E_.....	62
CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0104E_.....	64
ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0104E_.....	66
ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0114E_ - YCAL0124E_.....	68
ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0114E_ - YCAL0124E_.....	70
CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0114E_ - YCAL0124E_.....	72
ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0114E_ - YCAL0124E_.....	74

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. -17, add 2.5 amps; -28, add 2.3 amps; -40, add 1.5 amps, -46, add 1.3 amps; -58, add 1 amp.
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: YCAL0014 and YCAL0020 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 —————

ELECTRICAL DATA

SINGLE-POINT POWER SUPPLY CONNECTIONS – YCAL0014E_ - YCAL0034E_

(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									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	TERMINAL BLOCK (std)	NF DISC. SWITCH (opt)	CIRCUIT BREAKER (opt)	RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA(EA)
0014	200	60	71	100	80	90	80	90	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	24.0	189	24.0	189	—	—	2	8.2
	230	60	70	100	80	90	80	90	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	24.0	189	24.0	189	—	—	2	7.8
	380	60	42	60	50	50	50	50	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	14.4	112	14.4	112	—	—	2	4.8
	460	60	35	60	40	45	40	45	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	12.0	99	12.0	99	—	—	2	4.0
	575	60	28	30	35	35	35	35	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	9.6	74	9.6	74	—	—	2	3.1
0020	200	60	92	100	100	110	100	110	# 10 - # 1	# 10 - 1/0	# 3 - 3/0	33.2	278	33.2	278	—	—	2	8.2
	230	60	91	100	100	110	100	110	# 10 - # 1	# 10 - 1/0	# 3 - 3/0	33.2	278	33.2	278	—	—	2	7.8
	380	60	55	60	60	70	60	70	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	19.9	151	19.9	151	—	—	2	4.8
	460	60	46	60	50	60	50	60	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	16.6	127	16.6	127	—	—	2	4.0
	575	60	37	60	40	45	40	45	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	13.3	100	13.3	100	—	—	2	3.1
0024	200	60	107	150	125	125	125	125	# 10 - # 1	# 3 - 3/0	# 3 - 3/0	40.0	350	40.0	350	—	—	2	8.2
	230	60	106	150	125	125	125	125	# 10 - # 1	# 3 - 3/0	# 3 - 3/0	40.0	350	40.0	350	—	—	2	7.8
	380	60	64	100	70	80	70	80	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	24.0	195	24.0	195	—	—	2	4.8
	460	60	53	60	60	70	60	70	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	19.9	167	19.9	167	—	—	2	4.0
	575	60	43	60	50	50	50	50	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	16.0	125	16.0	125	—	—	2	3.1
0030	200	60	124	150	150	150	150	150	# 10 - 3/0	# 6 - 350	# 6 - 350	47.8	425	47.8	425	—	—	2	8.2
	230	60	124	150	150	150	150	150	# 10 - 3/0	# 6 - 350	# 6 - 350	47.8	425	47.8	425	—	—	2	7.8
	380	60	75	100	90	90	90	90	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	28.7	239	28.7	239	—	—	2	4.8
	460	60	62	100	70	70	70	70	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	23.9	198	23.9	198	—	—	2	4.0
	575	60	50	60	60	60	60	60	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	19.1	148	19.1	148	—	—	2	3.1
0034	200	60	147	200	175	175	175	175	# 10 - 3/0	# 6 - 350	# 6 - 350	40.0	350	40.0	350	40.0	350	2	8.2
	230	60	146	200	175	175	175	175	# 10 - 3/0	# 6 - 350	# 6 - 350	40.0	350	40.0	350	40.0	350	2	7.8
	380	60	88	100	100	110	100	110	# 10 - # 1	# 10 - 1/0	# 3 - 3/0	24.0	195	24.0	195	24.0	195	2	4.8
	460	60	73	100	80	90	80	90	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	19.9	167	19.9	167	19.9	167	2	4.0
	575	60	59	100	70	70	70	70	# 10 - # 1	# 10 - 1/0	# 10 - 1/0	16.0	125	16.0	125	16.0	125	2	3.1

Electrical Notes and Legend located on page 4.

UNIT VOLTAGE	UNIT VOLTAGE	CONTROL POWER	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	-17	200-1-60	15A	10A	15A		30 A / 240V
	-28	230-1-60	15A	10A	15A		30 A / 240V
	-40	380-1-60	15A	10A	15A		30 A / 480V
	-46	460-1-60	15A	10A	15A		30 A / 480V
	-58	575-1-60	15A	10A	15A		30 A / 600V

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

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

ELECTRICAL DATA – DUAL POINT POWER SUPPLY CONNECTIONS – YCAL0040E_ - YCAL0080E_

(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)
0040	200	60	92	100	100	110	100	110	# 10 - # 1	33.2	278	33.2	278	—	—	2	8.2
	230	60	91	100	100	110	100	110	# 10 - # 1	33.2	278	33.2	278	—	—	2	7.8
	380	60	55	60	60	70	60	70	# 10 - # 1	19.9	151	19.9	151	—	—	2	4.8
	460	60	46	60	50	60	50	60	# 10 - # 1	16.6	127	16.6	127	—	—	2	4.0
	575	60	37	60	40	45	40	45	# 10 - # 1	13.3	100	13.3	100	—	—	2	3.1
0042	200	60	107	150	125	125	125	125	# 10 - # 1	40.0	350	40.0	350	—	—	2	8.2
	230	60	106	150	125	125	125	125	# 10 - # 1	40.0	350	40.0	350	—	—	2	7.8
	380	60	64	100	70	90	70	90	# 10 - # 1	24.0	195	24.0	195	—	—	2	4.8
	460	60	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
	575	60	43	60	50	50	50	50	# 10 - # 1	16.0	125	16.0	125	—	—	2	3.1
0044	200	60	107	150	125	125	125	125	# 10 - # 1	40.0	350	40.0	350	—	—	2	8.2
	230	60	106	150	125	125	125	125	# 10 - # 1	40.0	350	40.0	350	—	—	2	7.8
	380	60	64	100	70	80	70	80	# 10 - # 1	24.0	195	24.0	195	—	—	2	4.8
	460	60	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
	575	60	43	60	50	50	50	50	# 10 - # 1	16.0	125	16.0	125	—	—	2	3.1
0050	200	60	124	150	150	150	150	150	# 10 - 3/0	47.8	425	47.8	425	—	—	2	8.2
	230	60	124	150	150	150	150	150	# 10 - 3/0	47.8	425	47.8	425	—	—	2	7.8
	380	60	75	100	90	100	90	100	# 10 - # 1	28.7	239	28.7	239	—	—	2	4.8
	460	60	62	100	70	80	70	80	# 10 - # 1	23.9	198	23.9	198	—	—	2	4.0
	575	60	50	60	60	60	60	60	# 10 - # 1	19.1	148	19.1	148	—	—	2	3.1
0060	200	60	124	150	150	150	150	150	# 10 - 3/0	47.8	425	47.8	425	—	—	2	8.2
	230	60	124	150	150	150	150	150	# 10 - 3/0	47.8	425	47.8	425	—	—	2	7.8
	380	60	75	100	90	100	90	100	# 10 - # 1	28.7	239	28.7	239	—	—	2	4.8
	460	60	62	100	70	80	70	80	# 10 - # 1	23.9	198	23.9	198	—	—	2	4.0
	575	60	50	60	60	60	60	60	# 10 - # 1	19.1	148	19.1	148	—	—	2	3.1
0064	200	60	147	200	175	175	175	175	# 10 - 3/0	40.0	350	40.0	350	40.0	350	2	8.2
	230	60	146	200	175	175	175	175	# 10 - 3/0	40.0	350	40.0	350	40.0	350	2	7.8
	380	60	88	100	100	110	100	110	# 10 - # 1	24.0	195	24.0	195	24.0	195	2	4.8
	460	60	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
	575	60	59	100	70	70	70	70	# 10 - # 1	16.0	125	16.0	125	16.0	125	2	3.1
0070	200	60	147	200	175	175	175	175	# 10 - 3/0	40.0	350	40.0	350	40.0	350	2	8.2
	230	60	146	200	175	175	175	175	# 10 - 3/0	40.0	350	40.0	350	40.0	350	2	7.8
	380	60	88	100	100	110	100	110	# 10 - # 1	24.0	195	24.0	195	24.0	195	2	4.8
	460	60	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
	575	60	59	100	70	70	70	70	# 10 - # 1	16.0	125	16.0	125	16.0	125	2	3.1
0074	200	60	172	200	200	200	200	200	# 10 - 3/0	47.8	425	47.8	425	47.8	425	2	8.2
	230	60	171	200	200	200	200	200	# 10 - 3/0	47.8	425	47.8	425	47.8	425	2	7.8
	380	60	103	150	125	125	125	125	# 10 - # 1	28.7	239	28.7	239	28.7	239	2	4.8
	460	60	86	100	100	100	100	100	# 10 - # 1	23.9	198	23.9	198	23.9	198	2	4.0
	575	60	69	100	80	80	80	80	# 10 - # 1	19.1	148	19.1	148	19.1	148	2	3.1
0080	200	60	172	200	200	200	200	200	# 10 - 3/0	47.8	425	47.8	425	47.8	425	2	8.2
	230	60	171	200	200	200	200	200	# 10 - 3/0	47.8	425	47.8	425	47.8	425	2	7.8
	380	60	103	150	125	125	125	125	# 10 - # 1	28.7	239	28.7	239	28.7	239	2	4.8
	460	60	86	100	100	100	100	100	# 10 - # 1	23.9	198	23.9	198	23.9	198	2	4.0
	575	60	69	100	80	80	80	80	# 10 - # 1	19.1	148	19.1	148	19.1	148	2	3.1

Electrical Notes and Legend located on page 4.

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)	
	92	100	100	110	100	110	# 10 - # 1	33.2	278	33.2	278	—	—	2	8.2
	91	100	100	110	100	110	# 10 - # 1	33.2	278	33.2	278	—	—	2	7.8
	55	60	60	70	60	70	# 10 - # 1	19.9	151	19.9	151	—	—	2	4.8
	46	60	50	60	50	60	# 10 - # 1	16.6	127	16.6	127	—	—	2	4.0
	37	60	40	45	40	45	# 10 - # 1	13.3	100	13.3	100	—	—	2	3.1
	92	100	100	110	100	110	# 10 - # 1	33.2	278	33.2	278	—	—	2	8.2
	91	100	100	110	100	110	# 10 - # 1	33.2	278	33.2	278	—	—	2	7.8
	55	60	60	70	60	70	# 10 - # 1	19.9	151	19.9	151	—	—	2	4.8
	46	60	50	60	50	60	# 10 - # 1	16.6	127	16.6	127	—	—	2	4.0
	37	60	40	45	40	45	# 10 - # 1	13.3	100	13.3	100	—	—	2	3.1
	107	150	125	125	125	125	# 10 - # 1	40.0	350	40.0	350	—	—	2	8.2
	106	150	125	125	125	125	# 10 - # 1	40.0	350	40.0	350	—	—	2	7.8
	64	100	70	80	70	80	# 10 - # 1	24.0	195	24.0	195	—	—	2	4.8
	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
	43	60	50	50	50	50	# 10 - # 1	16.0	125	16.0	125	—	—	2	3.1
	107	150	125	125	125	125	# 10 - # 1	40.0	350	40.0	350	—	—	2	8.2
	106	150	125	125	125	125	# 10 - # 1	40.0	350	40.0	350	—	—	2	7.8
	64	100	70	80	70	80	# 10 - # 1	24.0	195	24.0	195	—	—	2	4.8
	53	60	60	70	60	70	# 10 - # 1	19.9	167	19.9	167	—	—	2	4.0
	43	60	50	50	50	50	# 10 - # 1	16.0	125	16.0	125	—	—	2	3.1
	124	150	150	150	150	150	# 10 - 3/0	47.8	425	47.8	425	—	—	2	8.2
	124	150	150	150	150	150	# 10 - 3/0	47.8	425	47.8	425	—	—	2	7.8
	75	100	90	100	90	100	# 10 - # 1	28.7	239	28.7	239	—	—	2	4.8
	62	100	70	80	70	80	# 10 - # 1	23.9	198	23.9	198	—	—	2	4.0
	50	60	60	60	60	60	# 10 - # 1	19.1	148	19.1	148	—	—	2	3.1
	125	150	150	150	150	150	# 10 - 3/0	33.2	278	33.2	278	33.2	278	2	8.2
	124	150	150	150	150	150	# 10 - 3/0	33.2	278	33.2	278	33.2	278	2	7.8
	75	100	80	90	80	90	# 10 - # 1	19.9	151	19.9	151	19.9	151	2	4.8
	62	100	70	70	70	70	# 10 - # 1	16.6	127	16.6	127	16.6	127	2	4.0
	50	60	60	60	60	60	# 10 - # 1	13.3	100	13.3	100	13.3	100	2	3.1
	147	200	175	175	175	175	# 10 - 3/0	40.0	350	40.0	350	40.0	350	2	8.2
	146	200	175	175	175	175	# 10 - 3/0	40.0	350	40.0	350	40.0	350	2	7.8
	88	100	100	110	100	110	# 10 - # 1	24.0	195	24.0	195	24.0	195	2	4.8
	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
	59	100	70	70	70	70	# 10 - # 1	16.0	125	16.0	125	16.0	125	2	3.1
	147	200	175	175	175	175	# 10 - 3/0	40.0	350	40.0	350	40.0	350	2	8.2
	146	200	175	175	175	175	# 10 - 3/0	40.0	350	40.0	350	40.0	350	2	7.8
	88	100	100	100	100	100	# 10 - # 1	24.0	195	24.0	195	24.0	195	2	4.8
	73	100	80	90	80	90	# 10 - # 1	19.9	167	19.9	167	19.9	167	2	4.0
	59	100	70	70	70	70	# 10 - # 1	16.0	125	16.0	125	16.0	125	2	3.1
	172	200	200	200	200	200	# 10 - 3/0	47.8	425	47.8	425	47.8	425	2	8.2
	171	200	200	200	200	200	# 10 - 3/0	47.8	425	47.8	425	47.8	425	2	7.8
	103	150	125	125	125	125	# 10 - # 1	28.7	239	28.7	239	28.7	239	2	4.8
	86	100	100	100	100	100	# 10 - # 1	23.9	198	23.9	198	23.9	198	2	4.0
	69	100	80	80	80	80	# 10 - # 1	19.1	148	19.1	148	19.1	148	2	3.1

ELECTRICAL DATA – SINGLE POINT POWER SUPPLY CONNECTIONS – YCAL0040E – YCAL0080E

(One Field Provided Power Supply Circuit to the chiller. Field connections to Factory Provided Terminal Block (optional), 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		
					MIN ³	MAX ⁴	MIN	MAX	TERMINAL BLOCK (opt)	NF DISC. SWITCH (opt)	CIRCUIT BREAKER (opt)
0040	200	60	174	200	200	200	200	200	# 10 - 3/0	# 6 - 350	# 3 - 300
	230	60	173	200	200	200	200	200	# 10 - 3/0	# 6 - 350	# 3 - 300
	380	60	104	150	110	110	110	110	# 10 - # 1	# 2 - 4/0	# 2 - 4/0
	460	60	87	100	100	100	100	100	# 10 - # 1	# 14 - 1/0	# 14 - 1/0
	575	60	69	100	80	80	80	80	# 10 - # 1	# 14 - 1/0	# 14 - 1/0
0042	200	60	190	250	200	225	200	225	# 10 - 300	# 6 - 350	# 3 - 300
	230	60	188	250	200	225	200	225	# 10 - 300	# 6 - 350	# 3 - 300
	380	60	113	150	125	125	125	125	# 10 - # 1	# 2 - 4/0	# 2 - 4/0
	460	60	94	150	100	110	100	110	# 10 - # 1	# 2 - 4/0	# 14 - 1/0
	575	60	75	100	80	90	80	90	# 10 - # 1	# 14 - 1/0	# 14 - 1/0
0044	200	60	203	250	225	225	225	225	# 10 - 300	# 6 - 350	# 3 - 300
	230	60	202	250	225	225	225	225	# 10 - 300	# 6 - 350	# 3 - 300
	380	60	122	150	150	125	150	125	# 10 - 3/0	# 2 - 4/0	# 2 - 4/0
	460	60	101	150	110	110	110	110	# 10 - # 1	# 2 - 4/0	# 2 - 4/0
	575	60	81	100	90	90	90	90	# 10 - # 1	# 14 - 1/0	# 14 - 1/0
0050	200	60	221	250	250	250	250	250	# 10 - 300	# 6 - 350	# 6 - 350
	230	60	219	250	250	250	250	250	# 10 - 300	# 6 - 350	# 6 - 350
	380	60	132	150	150	150	150	150	# 10 - 3/0	# 2 - 4/0	# 2 - 4/0
	460	60	110	150	125	125	125	125	# 10 - # 1	# 2 - 4/0	# 2 - 4/0
	575	60	88	100	100	100	100	100	# 10 - # 1	# 14 - 1/0	# 14 - 1/0
0060	200	60	236	400	250	250	250	250	# 10 - 300	250-500	# 6 - 350
	230	60	235	400	250	250	250	250	# 10 - 300	250-500	# 6 - 350
	380	60	142	200	150	150	150	150	# 10 - 3/0	# 6 - 350	# 2 - 4/0
	460	60	118	150	125	125	125	125	# 10 - 3/0	# 2 - 4/0	# 2 - 4/0
	575	60	94	150	100	110	100	110	# 10 - # 1	# 2 - 4/0	# 14 - 1/0
0064	200	60	263	400	300	300	300	300	# 4 - 500	250-500	250-500
	230	60	261	400	300	300	300	300	# 4 - 500	250-500	250-500
	380	60	157	200	175	175	175	175	# 10 - 3/0	# 6 - 350	# 2 - 4/0
	460	60	131	150	150	150	150	150	# 10 - 3/0	# 2 - 4/0	# 2 - 4/0
	575	60	105	150	110	110	110	110	# 10 - # 1	# 2 - 4/0	# 2 - 4/0
0070	200	60	283	400	300	300	300	300	# 4 - 500	250-500	250-500
	230	60	282	400	300	300	300	300	# 4 - 500	250-500	250-500
	380	60	170	200	200	200	200	200	# 10 - 3/0	# 6 - 350	# 4 - 300
	460	60	141	200	150	150	150	150	# 10 - 3/0	# 6 - 350	# 2 - 4/0
	575	60	113	150	125	125	125	125	# 10 - # 1	# 2 - 4/0	# 2 - 4/0
0074	200	60	309	400	350	350	350	350	# 4 - 500	250-500	250-500
	230	60	307	400	350	350	350	350	# 4 - 500	250-500	250-500
	380	60	185	250	200	200	200	200	# 10 - 300	# 6 - 350	# 4 - 300
	460	60	154	200	175	175	175	175	# 10 - 3/0	# 6 - 350	# 4 - 300
	575	60	123	150	150	125	150	125	# 10 - 3/0	# 2 - 4/0	# 2 - 4/0
0080	200	60	332	400	350	350	350	350	# 4 - 500	250-500	250-500
	230	60	330	400	350	350	350	350	# 4 - 500	250-500	250-500
	380	60	199	250	225	225	225	225	# 10 - 300	# 6 - 350	# 4 - 300
	460	60	166	200	175	175	175	175	# 10 - 3/0	# 6 - 350	# 4 - 300
	575	60	132	150	150	150	150	150	# 10 - 3/0	# 2 - 4/0	# 2 - 4/0

Electrical Notes and Legend located on page 4.

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)
33.2	278	33.2	278	—	—	2	8.2	33.2	278	33.2	278	—	—	2	8.2
33.2	278	33.2	278	—	—	2	7.8	33.2	278	33.2	278	—	—	2	7.8
19.9	151	19.9	151	—	—	2	4.8	19.9	151	19.9	151	—	—	2	4.8
16.6	127	16.6	127	—	—	2	4.0	16.6	127	16.6	127	—	—	2	4.0
13.3	100	13.3	100	—	—	2	3.1	13.3	100	13.3	100	—	—	2	3.1
40.0	350	40.0	350	—	—	2	8.2	33.2	278	33.2	278	—	—	2	8.2
40.0	350	40.0	350	—	—	2	7.8	33.2	278	33.2	278	—	—	2	7.8
24.0	195	24.0	195	—	—	2	4.8	19.9	151	19.9	151	—	—	2	4.8
19.9	167	19.9	167	—	—	2	4.0	16.6	127	16.6	127	—	—	2	4.0
16.0	125	16.0	125	—	—	2	3.1	13.3	100	13.3	100	—	—	2	3.1
40.0	350	40.0	350	—	—	2	8.2	40.0	350	40.0	350	—	—	2	8.2
40.0	350	40.0	350	—	—	2	7.8	40.0	350	40.0	350	—	—	2	7.8
24.0	195	24.0	195	—	—	2	4.8	24.0	195	24.0	195	—	—	2	4.8
19.9	167	19.9	167	—	—	2	4.0	19.9	167	19.9	167	—	—	2	4.0
16.0	125	16.0	125	—	—	2	3.1	16.0	125	16.0	125	—	—	2	3.1
47.8	425	47.8	425	—	—	2	8.2	40.0	350	40.0	350	—	—	2	8.2
47.8	425	47.8	425	—	—	2	7.8	40.0	350	40.0	350	—	—	2	7.8
28.7	239	28.7	239	—	—	2	4.8	24.0	195	24.0	195	—	—	2	4.8
23.9	198	23.9	198	—	—	2	4.0	19.9	167	19.9	167	—	—	2	4.0
19.1	148	19.1	148	—	—	2	3.1	16.0	125	16.0	125	—	—	2	3.1
47.8	425	47.8	425	—	—	2	8.2	47.8	425	47.8	425	—	—	2	8.2
47.8	425	47.8	425	—	—	2	7.8	47.8	425	47.8	425	—	—	2	7.8
28.7	239	28.7	239	—	—	2	4.8	28.7	239	28.7	239	—	—	2	4.8
23.9	198	23.9	198	—	—	2	4.0	23.9	198	23.9	198	—	—	2	4.0
19.1	148	19.1	148	—	—	2	3.1	19.1	148	19.1	148	—	—	2	3.1
40.0	350	40.0	350	40.0	350	2	8.2	33.2	278	33.2	278	33.2	278	2	8.2
40.0	350	40.0	350	40.0	350	2	7.8	33.2	278	33.2	278	33.2	278	2	7.8
24.0	195	24.0	195	24.0	195	2	4.8	19.9	151	19.9	151	19.9	151	2	4.8
19.9	167	19.9	167	19.9	167	2	4.0	16.6	127	16.6	127	16.6	127	2	4.0
16.0	125	16.0	125	16.0	125	2	3.1	13.3	100	13.3	100	13.3	100	2	3.1
40.0	350	40.0	350	40.0	350	2	8.2	40.0	350	40.0	350	40.0	350	2	8.2
40.0	350	40.0	350	40.0	350	2	7.8	40.0	350	40.0	350	40.0	350	2	7.8
24.0	195	24.0	195	24.0	195	2	4.8	24.0	195	24.0	195	24.0	195	2	4.8
19.9	167	19.9	167	19.9	167	2	4.0	19.9	167	19.9	167	19.9	167	2	4.0
16.0	125	16.0	125	16.0	125	2	3.1	16.0	125	16.0	125	16.0	125	2	3.1
47.8	425	47.8	425	47.8	425	2	8.2	40.0	350	40.0	350	40.0	350	2	8.2
47.8	425	47.8	425	47.8	425	2	7.8	40.0	350	40.0	350	40.0	350	2	7.8
28.7	239	28.7	239	28.7	239	2	4.8	24.0	195	24.0	195	24.0	195	2	4.8
23.9	198	23.9	198	23.9	198	2	4.0	19.9	167	19.9	167	19.9	167	2	4.0
19.1	148	19.1	148	19.1	148	2	3.1	16.0	125	16.0	125	16.0	125	2	3.1
47.8	425	47.8	425	47.8	425	2	8.2	47.8	425	47.8	425	47.8	425	2	8.2
47.8	425	47.8	425	47.8	425	2	7.8	47.8	425	47.8	425	47.8	425	2	7.8
28.7	239	28.7	239	28.7	239	2	4.8	28.7	239	28.7	239	28.7	239	2	4.8
23.9	198	23.9	198	23.9	198	2	4.0	23.9	198	23.9	198	23.9	198	2	4.0
19.1	148	19.1	148	19.1	148	2	3.1	19.1	148	19.1	148	19.1	148	2	3.1

ELECTRICAL DATA – MULTIPLE POINT POWER SUPPLY CONNECTIONS – YCAL0090E – YCAL0124E

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								
			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 (std)	NF DISC. SWITCHES (opt)	CIR BREAKERS (opt)
0090	200	60	251	400	300	350	300	350	# 6 - 400	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	233	250	300	300	300	300	# 6 - 400	(1) # 6 - 350	(1 or 2) 3/0 - 500
	380	60	135	150	150	175	150	175	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	460	60	111	150	125	150	125	150	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0
	575	60	89	100	100	110	100	110	# 14 - 2/0	(1) # 6 - 350	(1) # 10 - 1/0
0094	200	60	251	400	300	350	300	350	# 6 - 400	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	233	250	300	300	300	300	# 6 - 400	(1) # 6 - 350	(1 or 2) 3/0 - 500
	380	60	135	150	150	175	150	175	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	460	60	111	150	125	150	125	150	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0
	575	60	89	100	100	110	100	110	# 14 - 2/0	(1) # 6 - 350	(1) # 10 - 1/0
0104	200	60	274	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	254	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	380	60	148	200	175	175	175	175	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0
	460	60	122	150	150	150	150	150	# 14 - 2/0	(1) # 6 - 350	(1) # 10 - 1/0
	575	60	98	150	110	110	110	110	# 14 - 2/0	(1) # 10 - 1/0	(1) # 10 - 1/0
0114	200	60	274	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	254	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	380	60	148	200	175	175	175	175	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	460	60	122	150	150	150	150	150	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	575	60	98	150	110	110	110	110	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0
0124	200	60	359	400	400	450	400	450	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	333	400	400	400	400	400	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	380	60	194	250	225	225	225	225	# 6 - 400	(1) # 6 - 350	(1) # 6 - 350
	460	60	159	200	175	200	175	200	# 6 - 400	(1) # 6 - 350	(1) # 6 - 350
	575	60	128	150	150	150	150	150	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350

MODEL YCAL	VOLT	HZ	SYSTEM #2 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 (std)	NF DISC. SWITCHES (opt)	CIR BREAKERS (opt)
0090	200	60	191	200	225	250	225	250	# 6 - 400	(1) # 6 - 350	(1) # 6 - 350
	230	60	178	200	200	225	200	225	# 6 - 400	(1) # 6 - 350	(1) # 6 - 350
	380	60	104	150	125	125	125	125	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0
	460	60	85	100	100	110	100	110	# 14 - 2/0	(1) # 10 - 1/0	(1) # 10 - 1/0
	575	60	68	100	80	90	80	90	# 14 - 2/0	(1) # 10 - 1/0	(1) # 10 - 1/0
0094	200	60	251	400	300	350	300	350	# 6 - 400	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	233	250	300	300	300	300	# 6 - 400	(1) # 6 - 350	(1 or 2) 3/0 - 500
	380	60	135	150	150	175	150	175	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	460	60	111	150	125	150	125	150	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0
	575	60	89	100	100	110	100	110	# 14 - 2/0	(1) # 6 - 350	(1) # 10 - 1/0
0104	200	60	259	400	300	350	300	350	# 6 - 400	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	241	250	300	300	300	300	# 6 - 400	(1) # 6 - 350	(1 or 2) 3/0 - 500
	380	60	140	150	175	175	175	175	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	460	60	115	150	150	150	150	150	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	575	60	92	100	110	125	110	125	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0
0114	200	60	274	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	254	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	380	60	148	200	175	175	175	175	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	460	60	122	150	150	150	150	150	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	575	60	98	150	110	110	110	110	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0
0124	200	60	374	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	230	60	354	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500	(1 or 2) 3/0 - 500
	380	60	148	200	175	175	175	175	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	460	60	122	150	150	150	150	150	# 14 - 2/0	(1) # 6 - 350	(1) # 6 - 350
	575	60	98	150	110	110	110	110	# 14 - 2/0	(1) # 6 - 350	(1) # 3 - 3/0

Electrical Notes and Legend located on page 4.

SYSTEM #1 COMPRESSOR & FAN							
COMPR. #1		COMPR. #2		COMPR. #3		FANS	
RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA(EA)
100.2	550	100.2	550	—	—	3	8.2
92.8	550	92.8	550	—	—	3	7.8
53.5	305	53.5	305	—	—	3	4.8
44.2	270	44.2	270	—	—	3	4.0
35.4	210	35.4	210	—	—	3	3.1
100.2	550	100.2	550	—	—	3	8.2
92.8	550	92.8	550	—	—	3	7.8
53.5	305	53.5	305	—	—	3	4.8
44.2	270	44.2	270	—	—	3	4.0
35.4	210	35.4	210	—	—	3	3.1
73.9	450	73.9	450	73.9	450	3	8.2
68.5	450	68.5	450	68.5	450	3	7.8
39.5	260	39.5	260	39.5	260	3	4.8
32.6	215	32.6	215	32.6	215	3	4.0
26.1	180	26.1	180	26.1	180	3	3.1
73.9	450	73.9	450	73.9	450	4	8.2
68.5	450	68.5	450	68.5	450	4	7.8
39.5	260	39.5	260	39.5	260	4	4.8
32.6	215	32.6	215	32.6	215	4	4.0
26.1	180	26.1	180	26.1	180	4	3.1
100.2	550	100.2	550	100.2	550	4	8.2
92.8	550	92.8	550	92.8	550	4	7.8
53.5	305	53.5	305	53.5	305	4	4.8
44.2	270	44.2	270	44.2	270	4	4.0
35.4	210	35.4	210	35.4	210	4	3.1

SYSTEM #2 COMPRESSOR & FAN							
COMPR. #1		COMPR. #2		COMPR. #3		FANS	
RLA	LRA	RLA	LRA	RLA	LRA	QTY	FLA(EA)
73.9	450	73.9	450	—	—	3	8.2
68.5	450	68.5	450	—	—	3	7.8
39.5	260	39.5	260	—	—	3	4.8
32.6	215	32.6	215	—	—	3	4.0
26.1	180	26.1	180	—	—	3	3.1
100.2	550	100.2	550	—	—	3	8.2
92.8	550	92.8	550	—	—	3	7.8
53.5	305	53.5	305	—	—	3	4.8
44.2	270	44.2	270	—	—	3	4.0
35.4	210	35.4	210	—	—	3	3.1
100.2	550	100.2	550	—	—	3	8.2
92.8	550	92.8	550	—	—	3	7.8
53.5	305	53.5	305	—	—	3	4.8
44.2	270	44.2	270	—	—	3	4.0
35.4	210	35.4	210	—	—	3	3.1
73.9	450	73.9	450	73.9	450	4	8.2
68.5	450	68.5	450	68.5	450	4	7.8
39.5	260	39.5	260	39.5	260	4	4.8
32.6	215	32.6	215	32.6	215	4	4.0
26.1	180	26.1	180	26.1	180	4	3.1
73.9	450	73.9	450	73.9	450	4	8.2
68.5	450	68.5	450	68.5	450	4	7.8
39.5	260	39.5	260	39.5	260	4	4.8
32.6	215	32.6	215	32.6	215	4	4.0
26.1	180	26.1	180	26.1	180	4	3.1

ELECTRICAL DATA – SINGLE POINT POWER SUPPLY CONNECTIONS WITH INDIVIDUAL SYSTEM CIRCUIT BREAKERS – YCAL0090E_ - YCAL0124E_

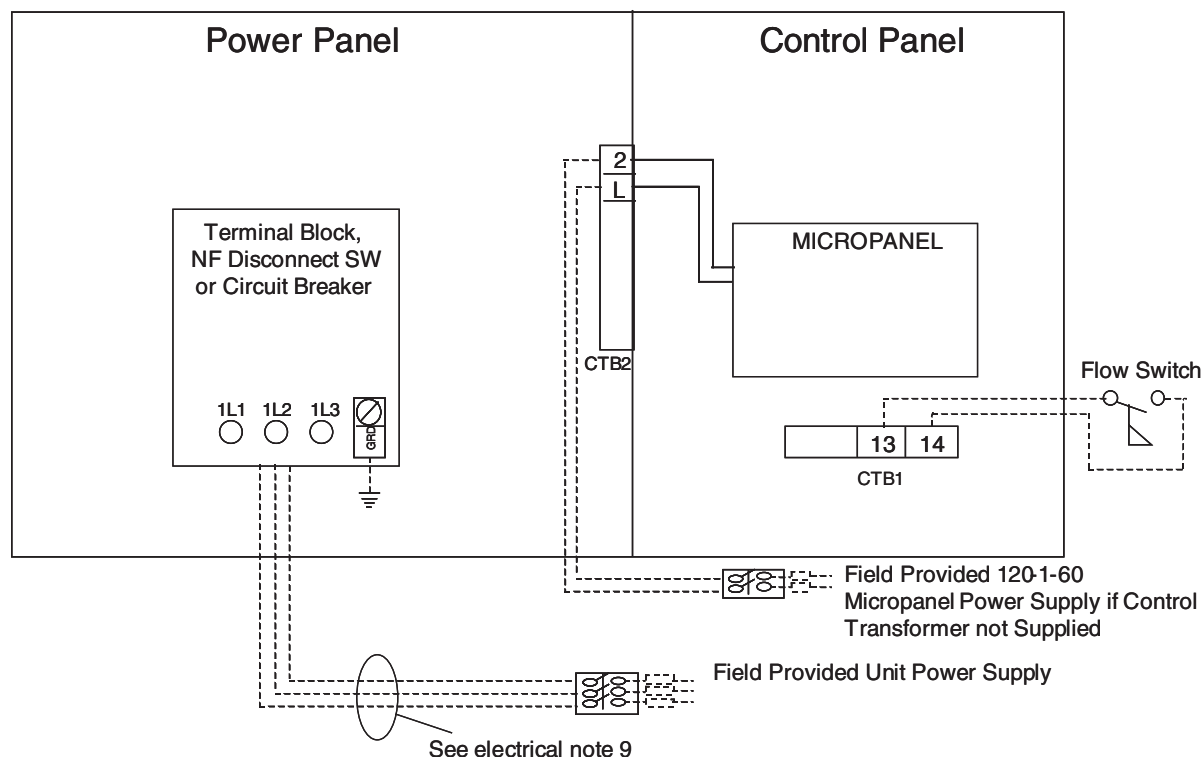
One Field Provided Power Supply Circuit to the chiller. Field connections to Factory Provided Terminal Block (optional) or Non-Fused Disconnect Switch (optional). Includes Individual Branch Circuit Protection (Breakers) per electrical system

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)
0090	200	60	423	600	450	500	450	500	(2) # 4 - 500	(1 or 2) 3/0 - 500
	230	60	393	600	450	450	450	450	(2) # 4 - 500	(1 or 2) 3/0 - 500
	380	60	229	250	250	250	250	250	(2) # 4 - 500	(1) # 6 - 350
	460	60	188	250	250	200	250	200	# 6 - 400	(1) # 6 - 350
	575	60	151	200	200	175	200	175	# 14 - 2/0	(1) # 6 - 350
0094	200	60	476	600	600	600	600	600	(2) # 4 - 500	(1 or 2) 3/0 - 500
	230	60	442	600	500	500	500	500	(2) # 4 - 500	(1 or 2) 3/0 - 500
	380	60	257	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500
	460	60	211	250	225	250	225	250	# 6 - 400	(1) # 6 - 350
	575	60	169	200	200	200	200	200	# 6 - 400	(1) # 6 - 350
0104	200	60	513	600	600	600	600	600	(2) # 4 - 500	(1 or 2) 3/0 - 500
	230	60	477	600	500	500	500	500	(2) # 4 - 500	(1 or 2) 3/0 - 500
	380	60	278	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500
	460	60	228	250	250	250	250	250	# 6 - 400	(1) # 6 - 350
	575	60	183	200	200	200	200	200	# 6 - 400	(1) # 6 - 350
0114	200	60	528	600	600	600	600	600	(2) # 4 - 500	(1 or 2) 3/0 - 500
	230	60	491	600	600	600	600	600	(2) # 4 - 500	(1 or 2) 3/0 - 500
	380	60	286	400	300	300	300	300	(2) # 4 - 500	(1 or 2) 3/0 - 500
	460	60	235	400	250	250	250	250	# 6 - 400	(1 or 2) 3/0 - 500
	575	60	188	250	200	200	200	200	# 6 - 400	(1) # 6 - 350
0124	200	60	607	800	700	700	700	700	(2) # 4 - 500	(1 or 2) 3/0 - 500
	230	60	564	800	600	600	600	600	(2) # 4 - 500	(1 or 2) 3/0 - 500
	380	60	328	400	350	350	350	350	(2) # 4 - 500	(1 or 2) 3/0 - 500
	460	60	269	400	300	300	300	300	# 6 - 400	(1 or 2) 3/0 - 500
	575	60	216	250	250	250	250	250	# 6 - 400	(1) # 6 - 350

Electrical Notes and Legend located on page 4.

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)
100.2	550	100.2	550	—	—	3	8.2	73.9	450	73.9	450	—	—	3	8.2
92.8	550	92.8	550	—	—	3	7.8	68.5	450	68.5	450	—	—	3	7.8
53.5	305	53.5	305	—	—	3	4.8	39.5	260	39.5	260	—	—	3	4.8
44.2	270	44.2	270	—	—	3	4.0	32.6	215	32.6	215	—	—	3	4.0
35.4	210	35.4	210	—	—	3	3.1	26.1	180	26.1	180	—	—	3	3.1
100.2	550	100.2	550	—	—	3	8.2	100.2	550	100.2	550	—	—	3	8.2
92.8	550	92.8	550	—	—	3	7.8	92.8	550	92.8	550	—	—	3	7.8
53.5	305	53.5	305	—	—	3	4.8	53.5	305	53.5	305	—	—	3	4.8
44.2	270	44.2	270	—	—	3	4.0	44.2	270	44.2	270	—	—	3	4.0
35.4	210	35.4	210	—	—	3	3.1	35.4	210	35.4	210	—	—	3	3.1
73.9	450	73.9	450	73.9	450	3	8.2	100.2	550	100.2	550	—	—	3	8.2
68.5	450	68.5	450	68.5	450	3	7.8	92.8	550	92.8	550	—	—	3	7.8
39.5	260	39.5	260	39.5	260	3	4.8	53.5	305	53.5	305	—	—	3	4.8
32.6	215	32.6	215	32.6	215	3	4.0	44.2	270	44.2	270	—	—	3	4.0
26.1	180	26.1	180	26.1	180	3	3.1	35.4	210	35.4	210	—	—	3	3.1
73.9	450	73.9	450	73.9	450	4	8.2	73.9	450	73.9	450	73.9	450	4	8.2
68.5	450	68.5	450	68.5	450	4	7.8	68.5	450	68.5	450	68.5	450	4	7.8
39.5	260	39.5	260	39.5	260	4	4.8	39.5	260	39.5	260	39.5	260	4	4.8
32.6	215	32.6	215	32.6	215	4	4.0	32.6	215	32.6	215	32.6	215	4	4.0
26.1	180	26.1	180	26.1	180	4	3.1	26.1	180	26.1	180	26.1	180	4	3.1
100.2	550	100.2	550	100.2	550	4	8.2	73.9	450	73.9	450	73.9	450	4	8.2
92.8	550	92.8	550	92.8	550	4	7.8	68.5	450	68.5	450	68.5	450	4	7.8
53.5	305	53.5	305	53.5	305	4	4.8	39.5	260	39.5	260	39.5	260	4	4.8
44.2	270	44.2	270	44.2	270	4	4.0	32.6	215	32.6	215	32.6	215	4	4.0
35.4	210	35.4	210	35.4	210	4	3.1	26.1	180	26.1	180	26.1	180	4	3.1

SINGLE-POINT SUPPLY CONNECTION – TERMINAL BLOCK, NON-FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER (0014 - 0080)



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

Electrical Notes and Legend located on page 4.



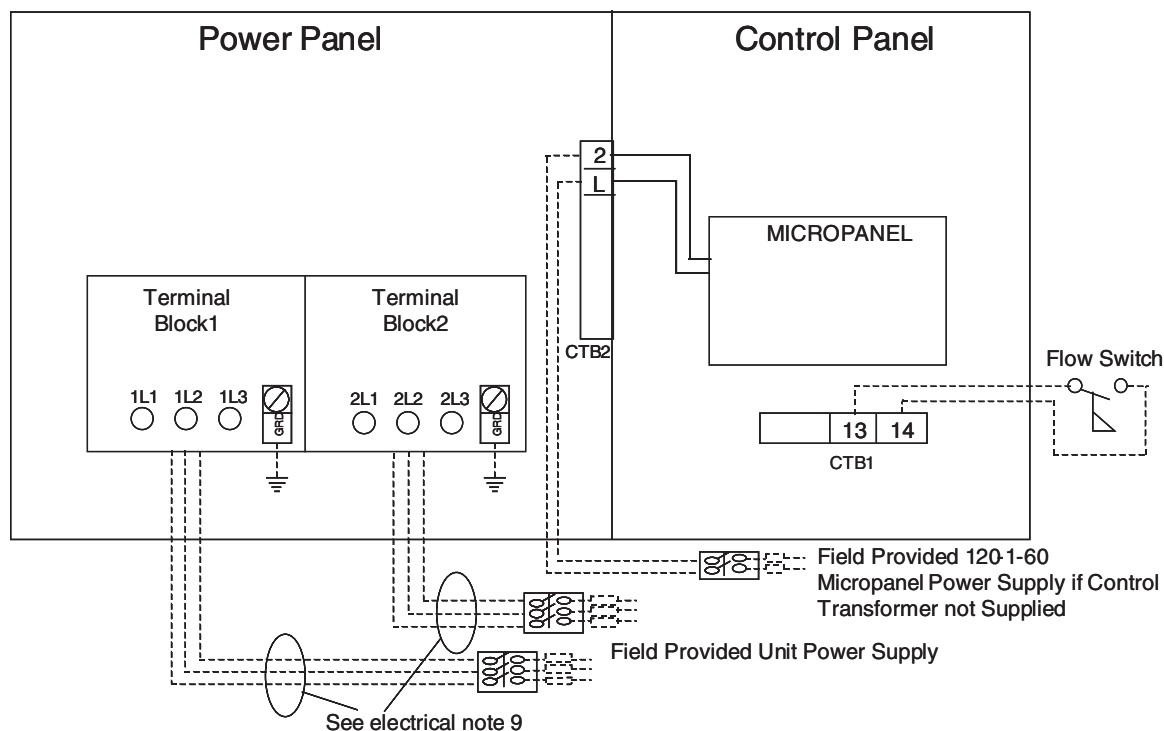
It is possible that multiple sources of power can be supplying the unit power panel. To prevent serious injury or death, the technician should verify that NO LETHAL VOLTAGES are present inside the panel AFTER disconnecting power, PRIOR to working on equipment.



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. 1 – SINGLE-POINT SUPPLY CONNECTION – TERMINAL BLOCK, NON-FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER (0014 - 0080)

MULTIPLE POINT POWER SUPPLY CONNECTION – TERMINAL BLOCK (0040 - 0080)



Electrical Notes and Legend located on page 4.



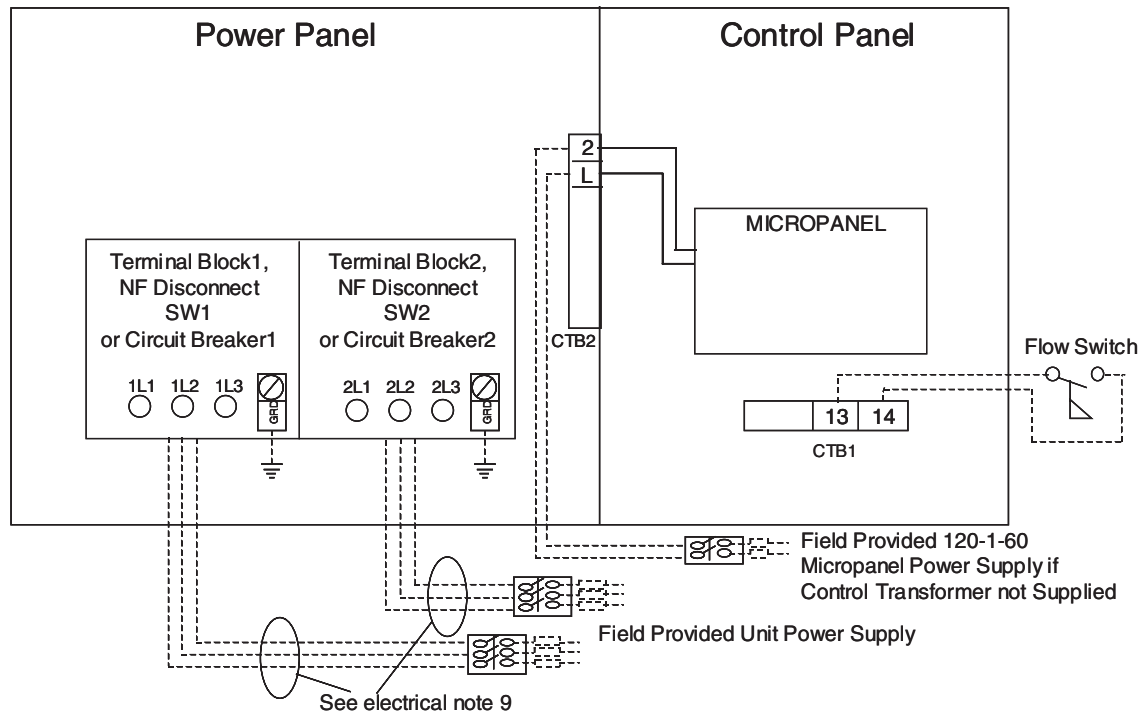
It is possible that multiple sources of power can be supplying the unit power panel. To prevent serious injury or death, the technician should verify that NO LETHAL VOLTAGES are present inside the panel AFTER disconnecting power, PRIOR to working on equipment.



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 (0040 - 0080)

MULTIPLE POINT POWER SUPPLY CONNECTION – TERMINAL BLOCK, NON-FUSED DISCONNECT SWITCHES OR CIRCUIT BREAKERS (0090 - 0124)



LD07721

Electrical Notes and Legend located on page 4.



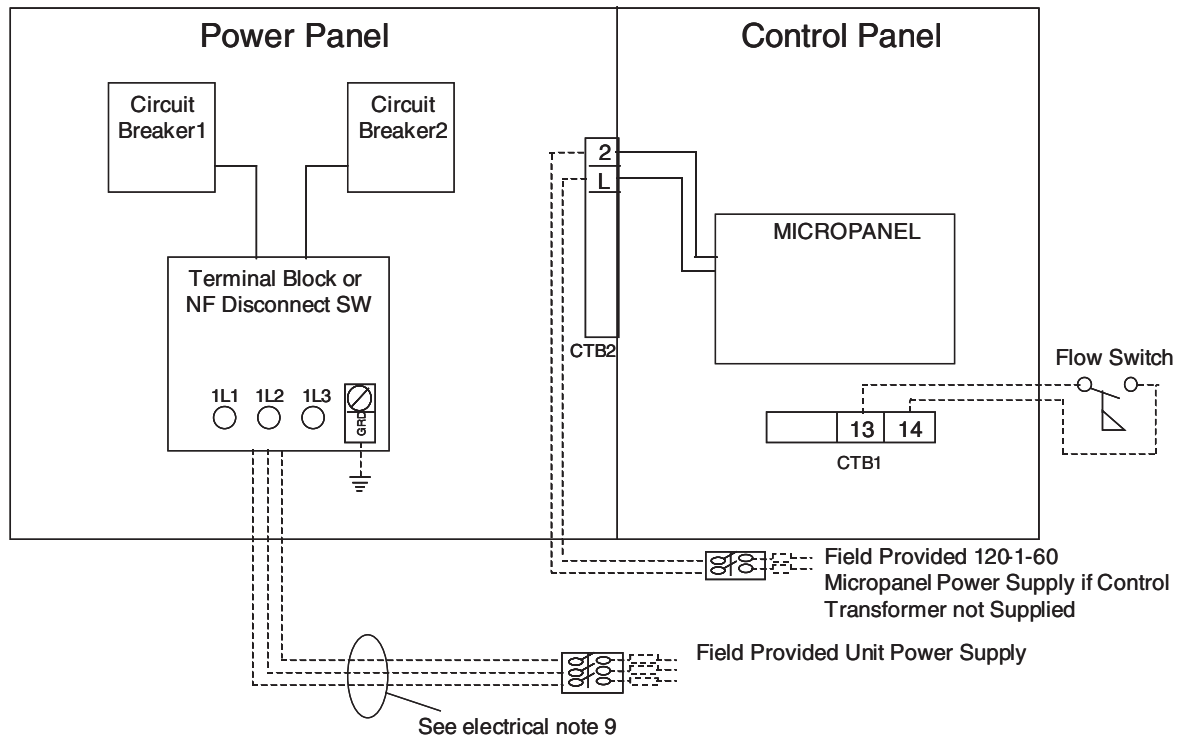
It is possible that multiple sources of power can be supplying the unit power panel. To prevent serious injury or death, the technician should verify that NO LETHAL VOLTAGES are present inside the panel AFTER disconnecting power, PRIOR to working on equipment.



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 (0090 - 0124)

SINGLE-POINT SUPPLY CONNECTION – TERMINAL BLOCK OR NON-FUSED DISCONNECT SWITCH TO INDIVIDUAL SYSTEM CIRCUIT BREAKERS (0090 - 0124)



LD07722

Electrical Notes and Legend located on page 4.



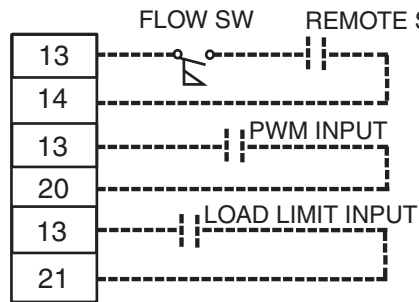
It is possible that multiple sources of power can be supplying the unit power panel. To prevent serious injury or death, the technician should verify that NO LETHAL VOLTAGES are present inside the panel AFTER disconnecting power, PRIOR to working on equipment.



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.

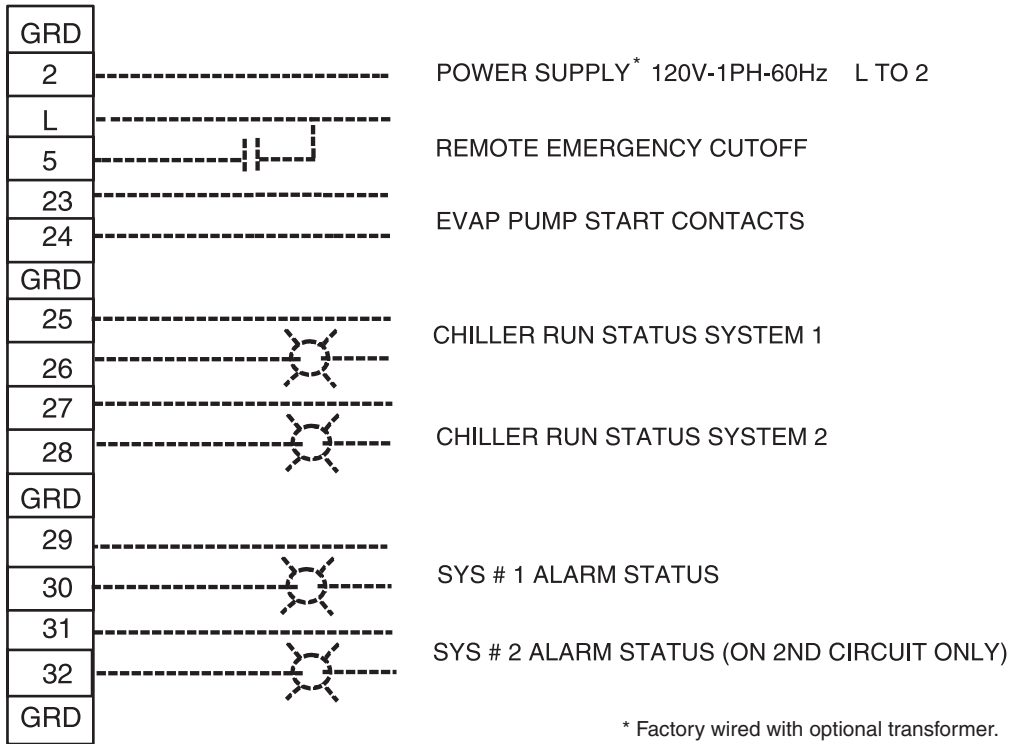
FIG. 4 – OPTIONAL SINGLE-POINT POWER WIRING

CONTROL WIRING



CTB1

LD07725



CTB2

* Factory wired with optional transformer.

LD07730



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.

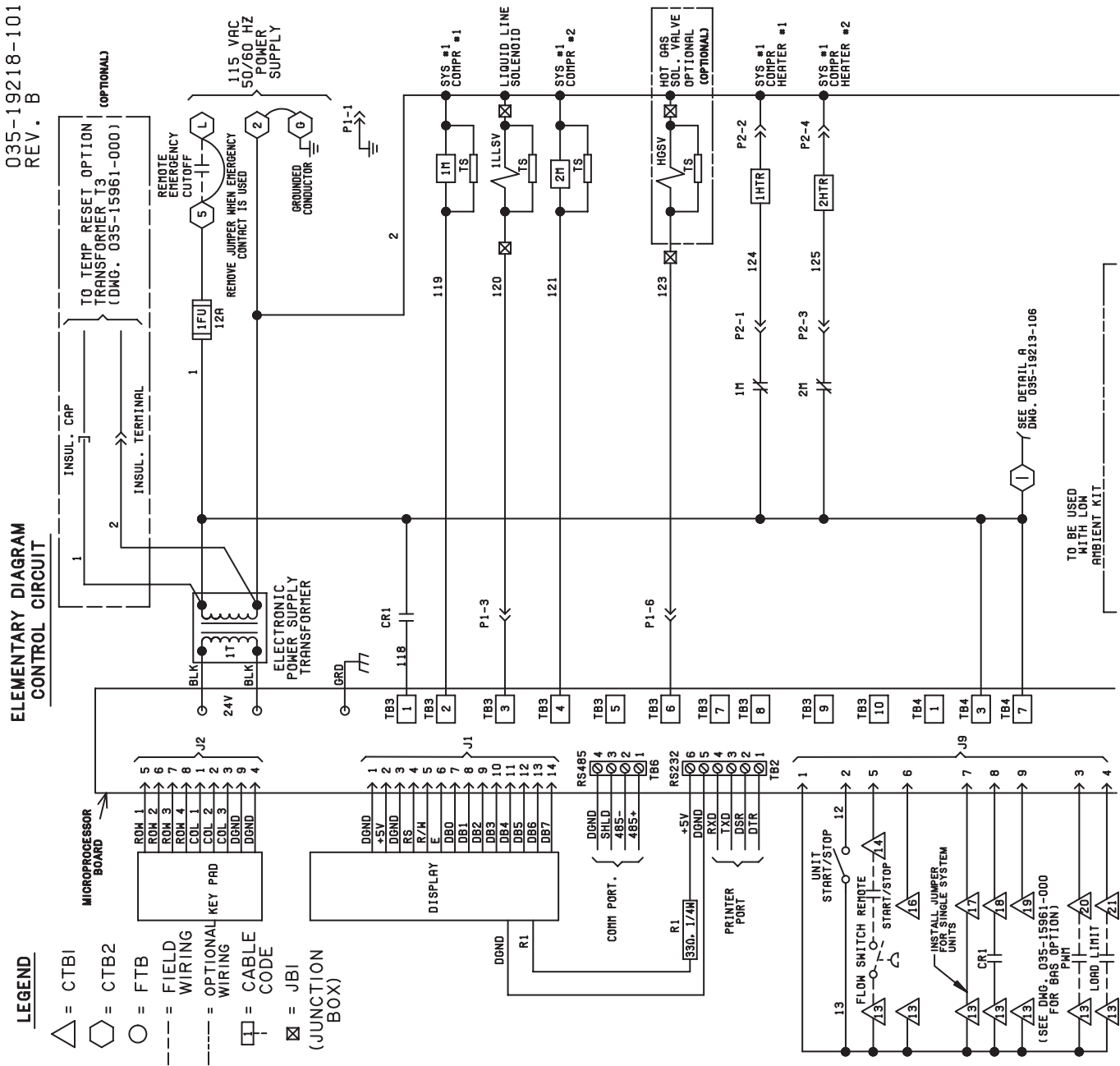


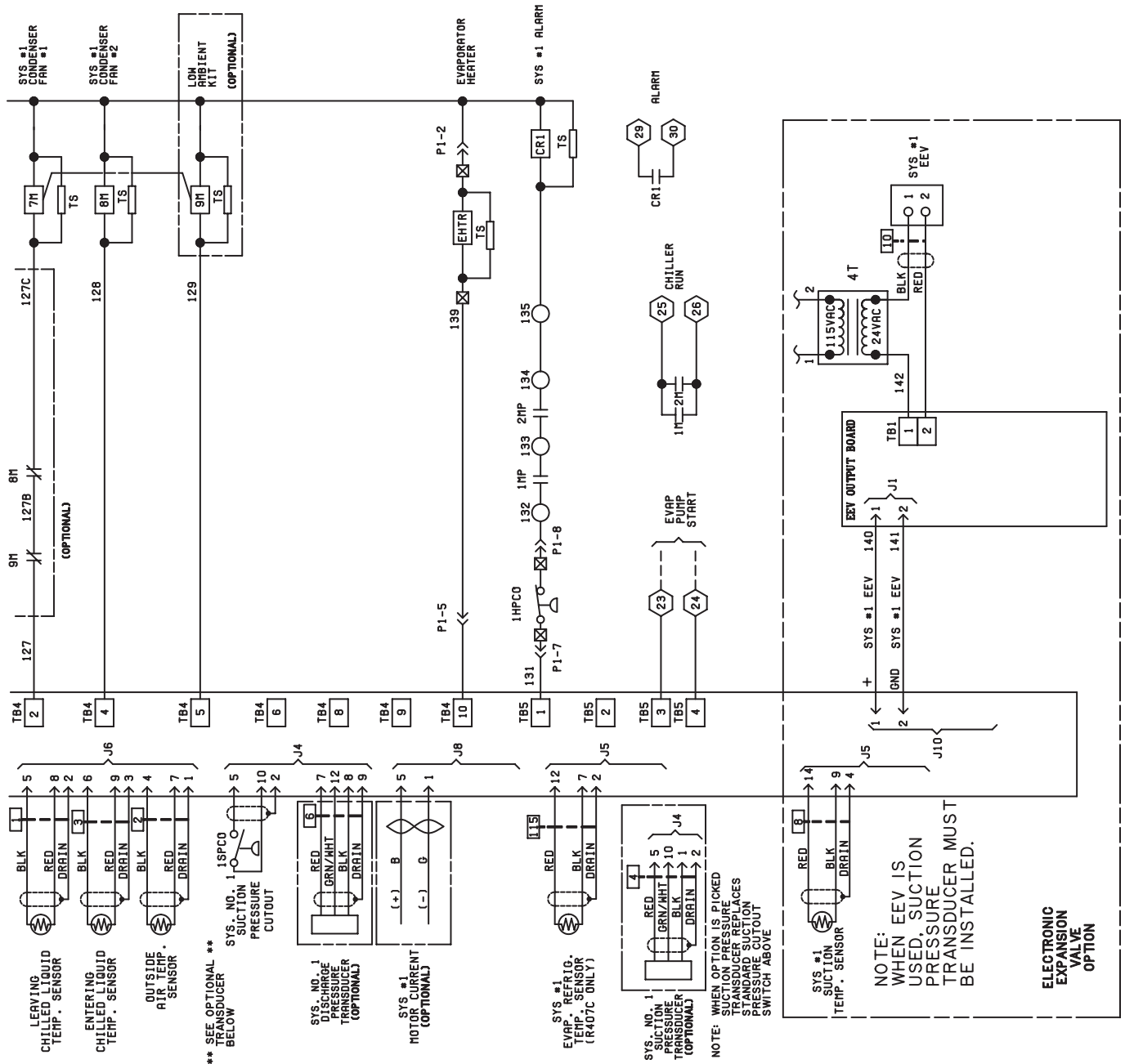
The unit evaporator heater uses 120VAC. Disconnecting 120VAC power from the unit, at or below freezing temperatures, can result in damage to the evaporator and unit as a result of the chilled liquid freezing.

FIG. 5 – CONTROL WIRING

This page intentionally left blank.

ELEMENTARY DIAGRAM YCAL0014E - YCAL0030E



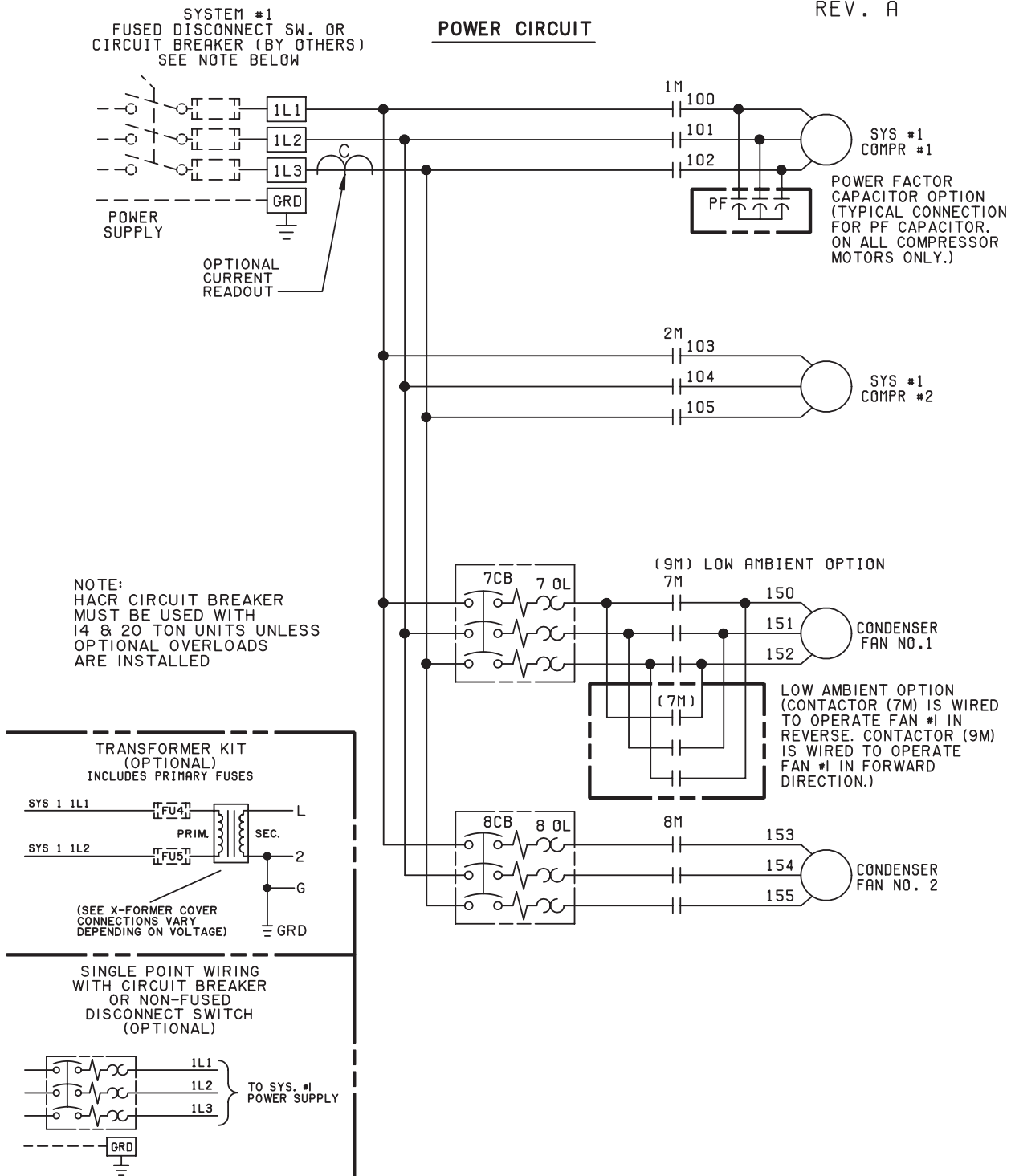


ELEMENTARY DIAGRAM **YCAL0014E_ – YCAL0030E_**

ELEMENTARY DIAGRAM

035-19203C102
REV. A

POWER CIRCUIT



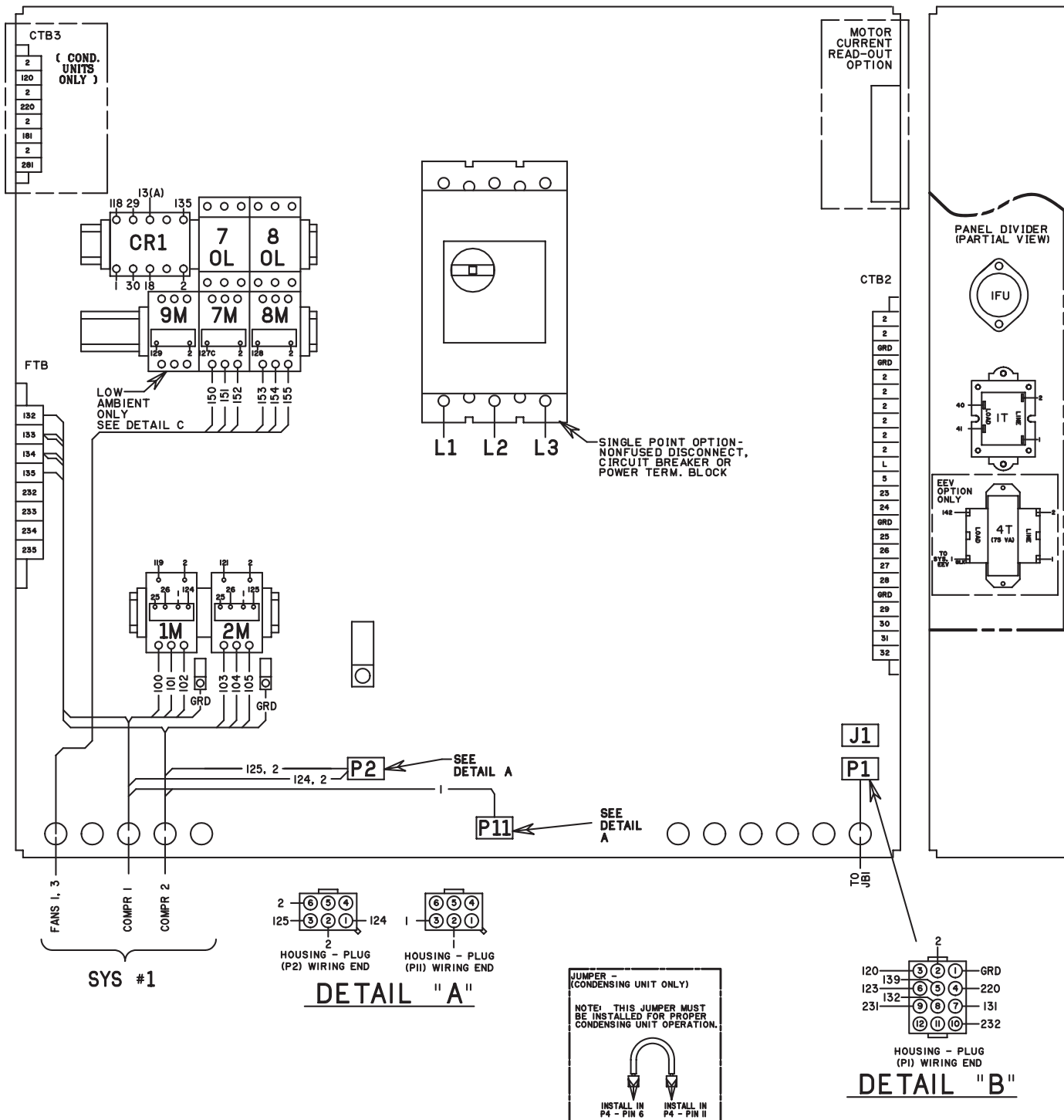
LD08852

FIG. 7 – ELEMENTARY DIAGRAM, POWER CIRCUIT – YCAL0014E_ - YCAL0030E_

This page intentionally left blank.

CONNECTION DIAGRAM **YCAL0014E_ AND YCAL0030E_**

POWER PANEL



LD08854

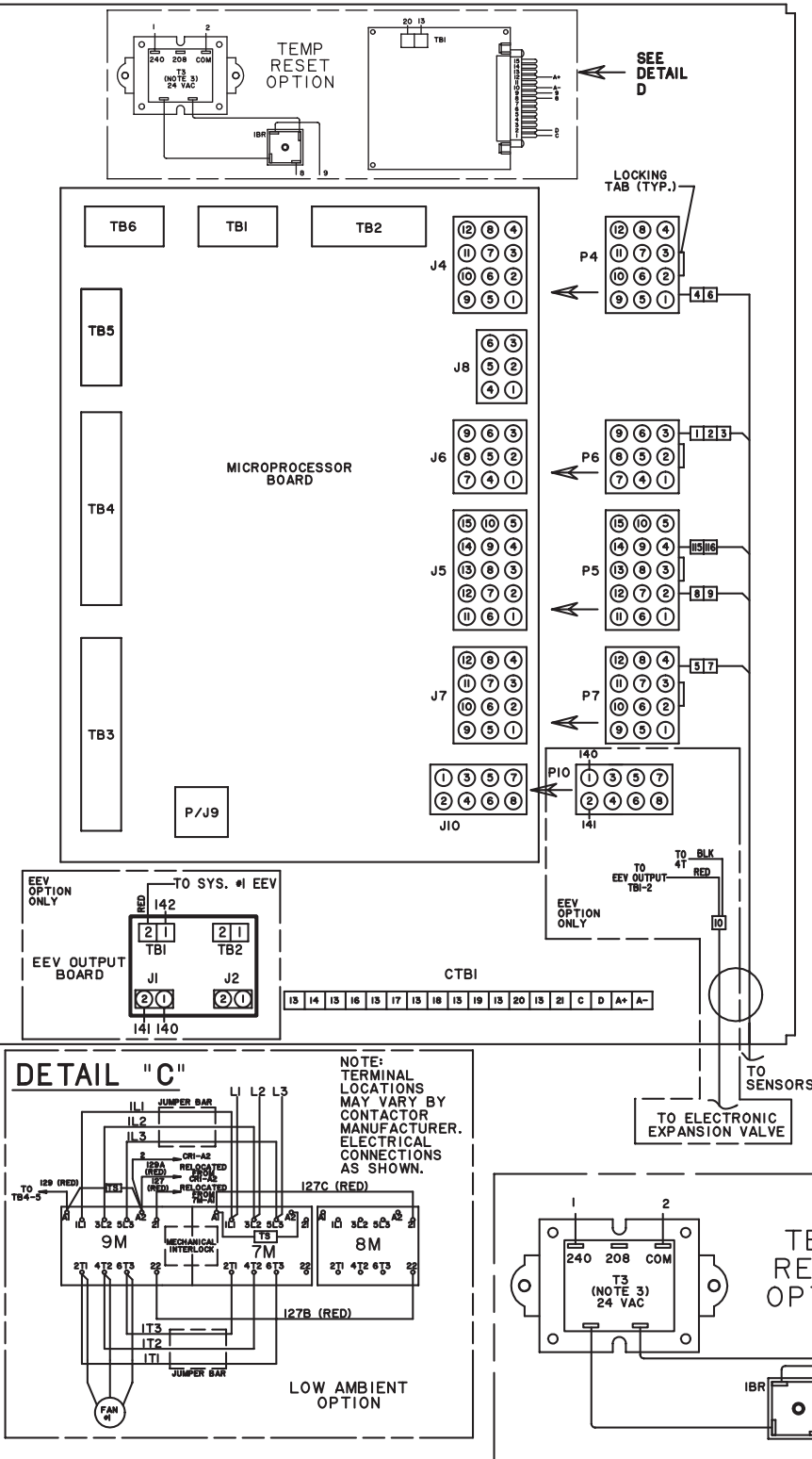
FIG. 8 - CONNECTION DIAGRAM, MIDDLE MARKET - YCAL0014E_ - YCAL0030E_

035-19215-000
REV A

MICRO PANEL

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		
MICRO P6	19	[3]	RED	7	SYS #1 DISCHARGE PRESSURE	IDPT
			WHT	12		
			BLK	8		
			DRAIN	9		
MICRO P5	19	[2]	BLK	5	LEAVING WATER TEMP	LWT
			RED	8		
			DRAIN	2		
			BLK	6	ENTERING WATER TEMP	EWT
MICRO P5	19	[1]	RED	9	OUTSIDE AIR TEMP.	OAT
			RED	3		
			BLK	4		
			DRAIN	1		
MICRO P5	STANDARD 407C	[15]	RED	12	SYS #1 LIQ. TEMP. SENSOR	ILTS
			BLK	7		
			DRAIN	2		
			RED	14	SYS #1 SUCTION TEMP. SENSOR	ISTS
MICRO P5	OPTIONAL KIT	[8]	BLK	9		
			RED	4		
			DRAIN	4		
			RED	4T (TRANS)	SYS #1 EEV OUTPUT	IEEV

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

LD08855

**ELEMENTARY DIAGRAM
YCAL0014E_ AND YCAL0030E**

**ELEMENTARY DIAGRAM
MIDDLE MARKET
STANDARD AND REMOTE EVAPORATOR UNITS**

035-19213-106
REV. B

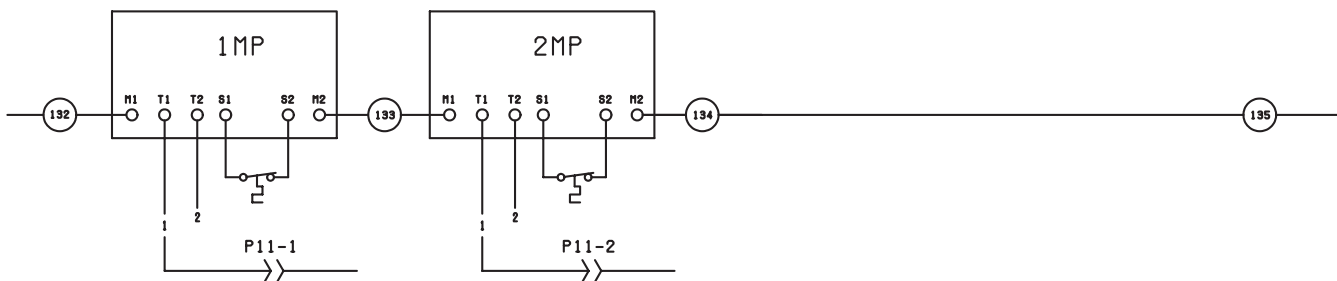
NOTES:

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).
3. WIRING SHALL NOT BE DONE IN THE SAME CONDUIT WITH ANY LINE VOLTAGE (CLASS I) WIRING.
4. 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.
5. TO STOP UNIT (EMERGENCY STOP) WITH CONTACTS OTHER THAN THOSE SHOWN, INSTALL THE STOP CONTACT BETWEEN TERMINALS 5 AND I. IF A STOP DEVICE IS NOT INSTALLED, EMERGENCY MUST BE CONNECTED BETWEEN TERMINALS 5 AND I. DEVICE MUST HAVE A MINIMUM CONTACT RATING OF 6A AT 115VOLTS A.C.
6. CONTACTS ARE RATED AT 115V, 100VA, RESISTIVE LOAD ONLY, AND MUST BE SUPPRESSED AT LOAD BY USER.
7. SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL WHEN OPTIONAL EQUIPMENT IS USED.
8. OPTIONAL CURRENT READOUT, 5V = 225A.
9. IMP THROUGH 6MP ARE CONTAINED IN THEIR RESPECTIVE COMPRESSOR JUNCTION BOXES.

LEGEND

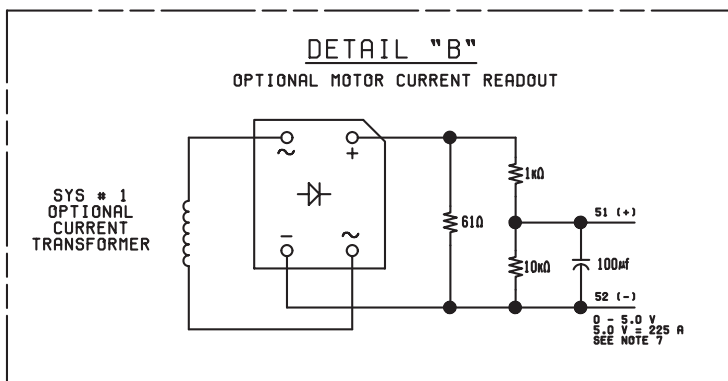
TS	TRANSIENT VOLTAGE SUPPRESSION
	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
	WIRING AND COMPONENTS BY YORK
	OPTIONAL EQUIPMENT
	WIRING AND/OR COMPONENTS BY OTHERS

DETAIL "A"



DETAIL "B"

OPTIONAL MOTOR CURRENT READOUT



LD08856

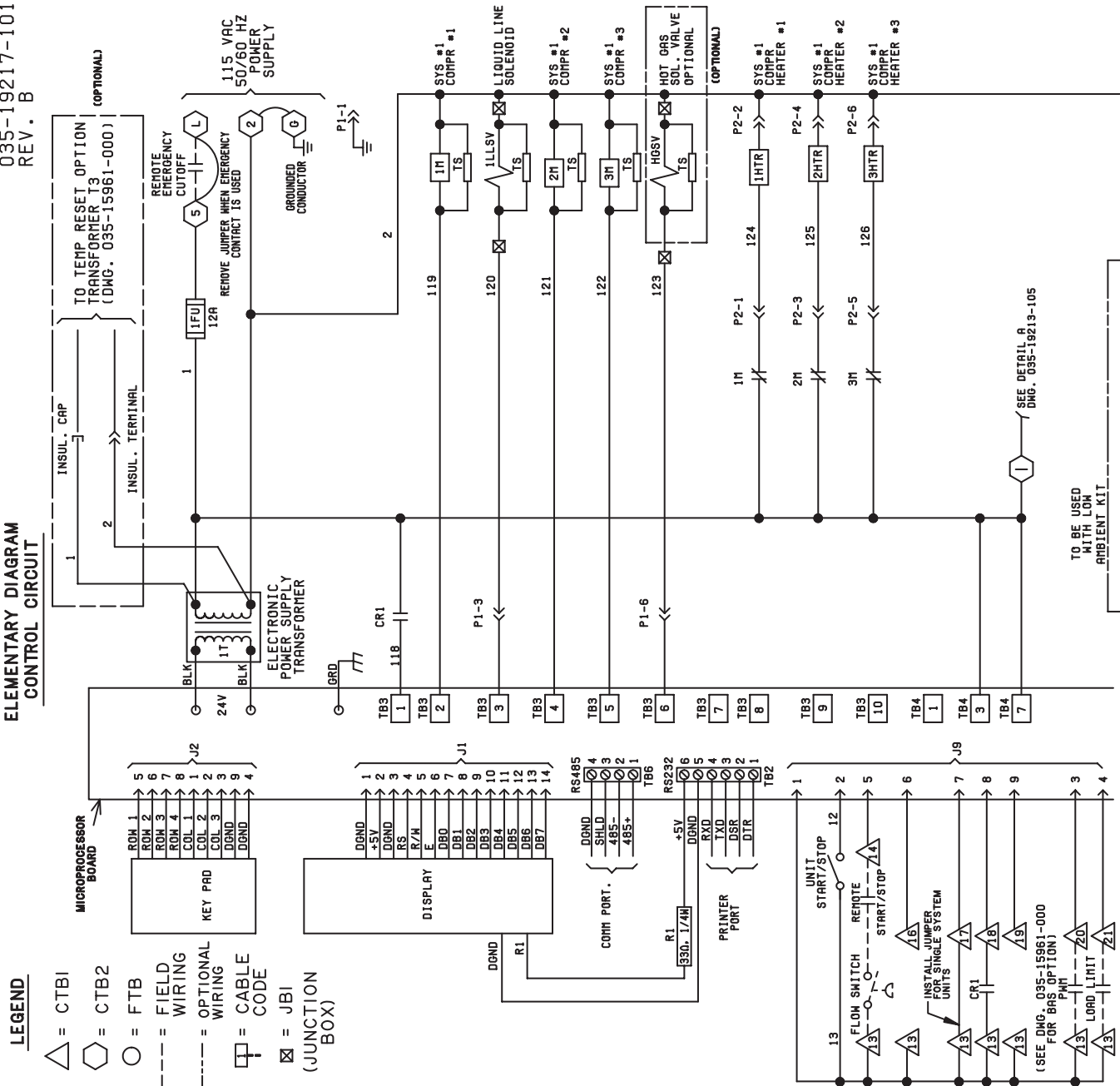
FIG. 9 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0014E - YCAL0030E

This page intentionally left blank.

ELEMENTARY DIAGRAM
YCAL0034E_

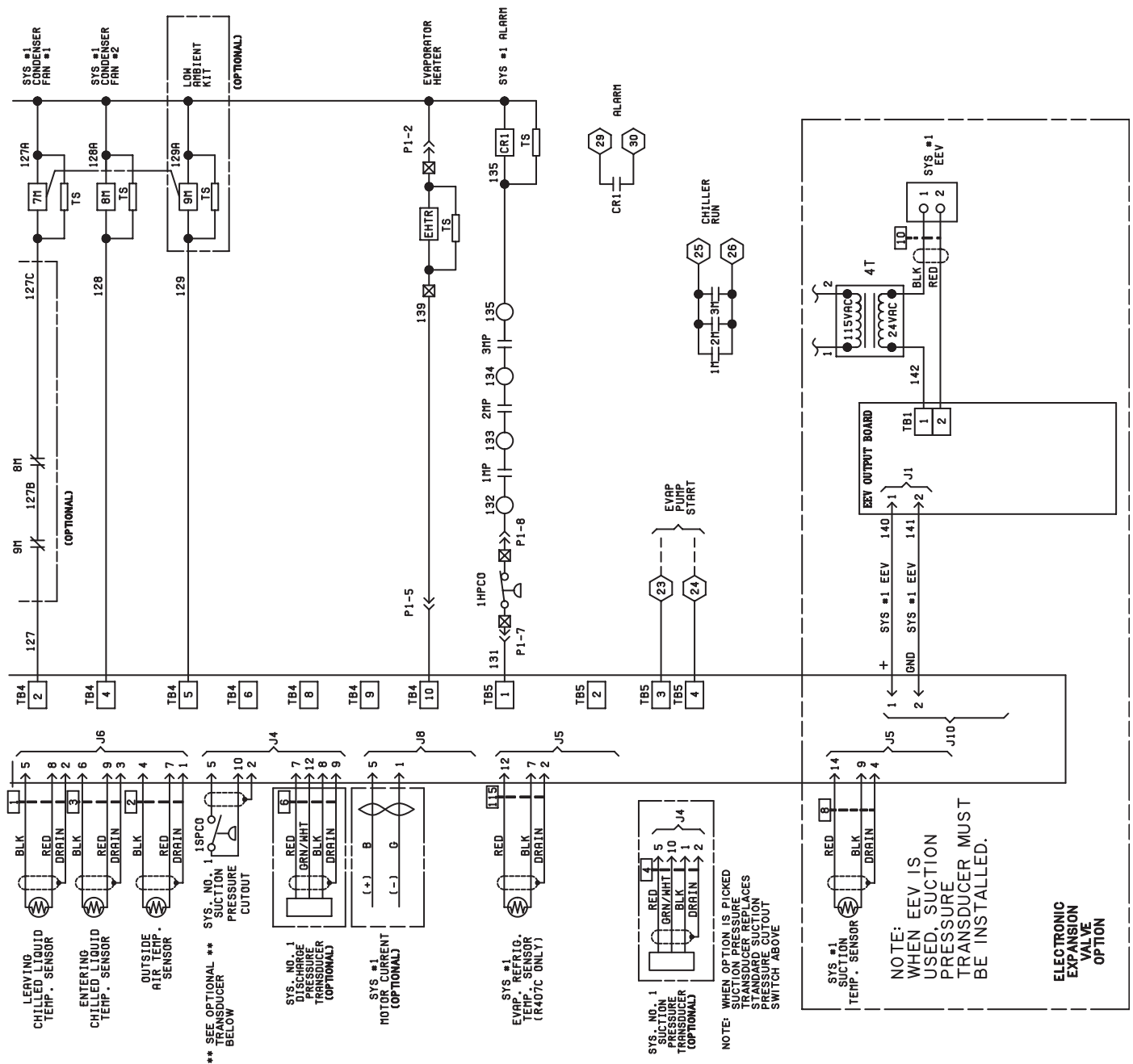
035-19217-101
REV. B

ELEMENTARY DIAGRAM CONTROL CIRCUIT



LD08857

FIG. 10 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0034E

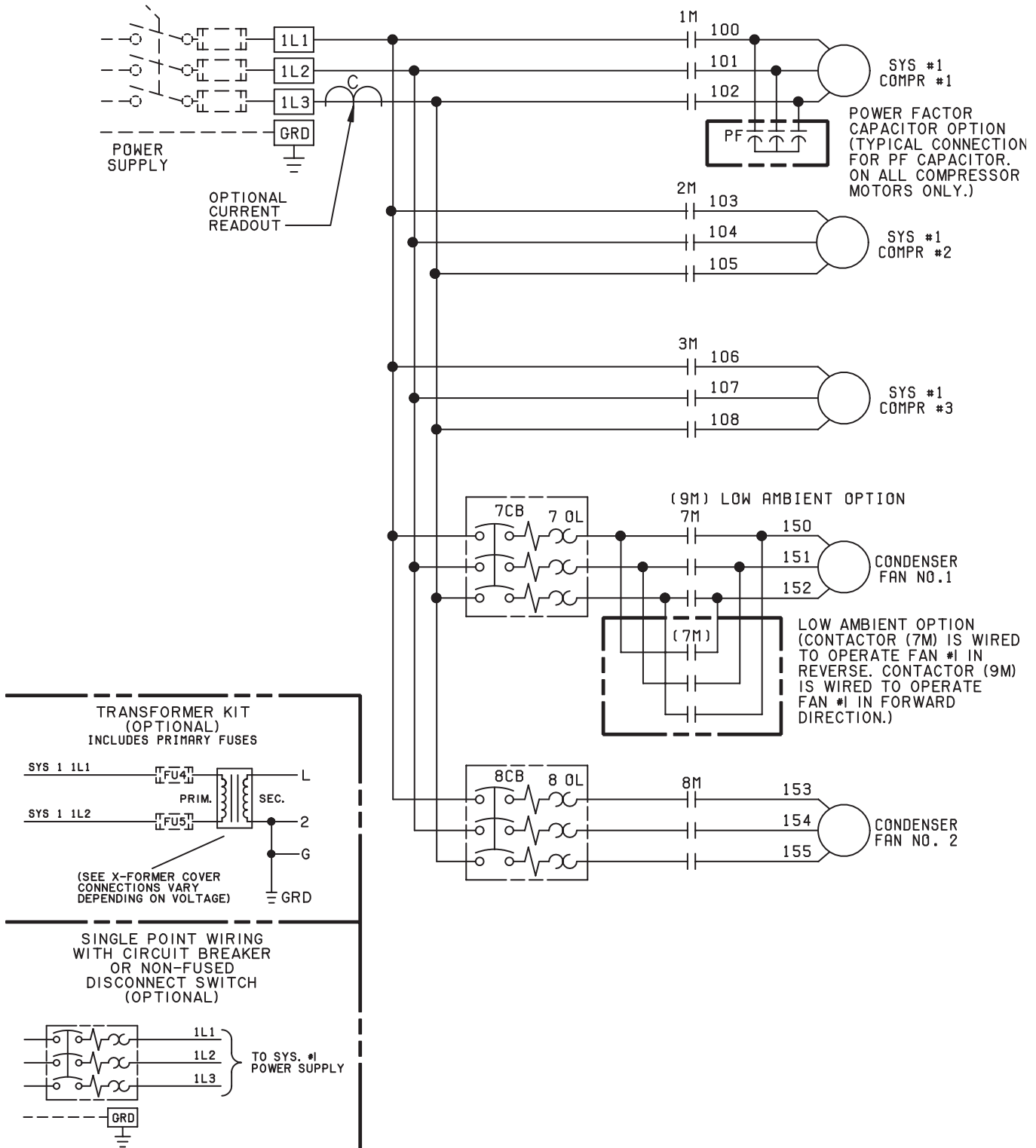


ELEMENTARY DIAGRAM **YCAL0034E_**

ELEMENTARY DIAGRAM **POWER CIRCUIT**

035-19202C102
REV. A

SYSTEM #1
FUSED DISCONNECT SW. OR
CIRCUIT BREAKER (BY OTHERS)



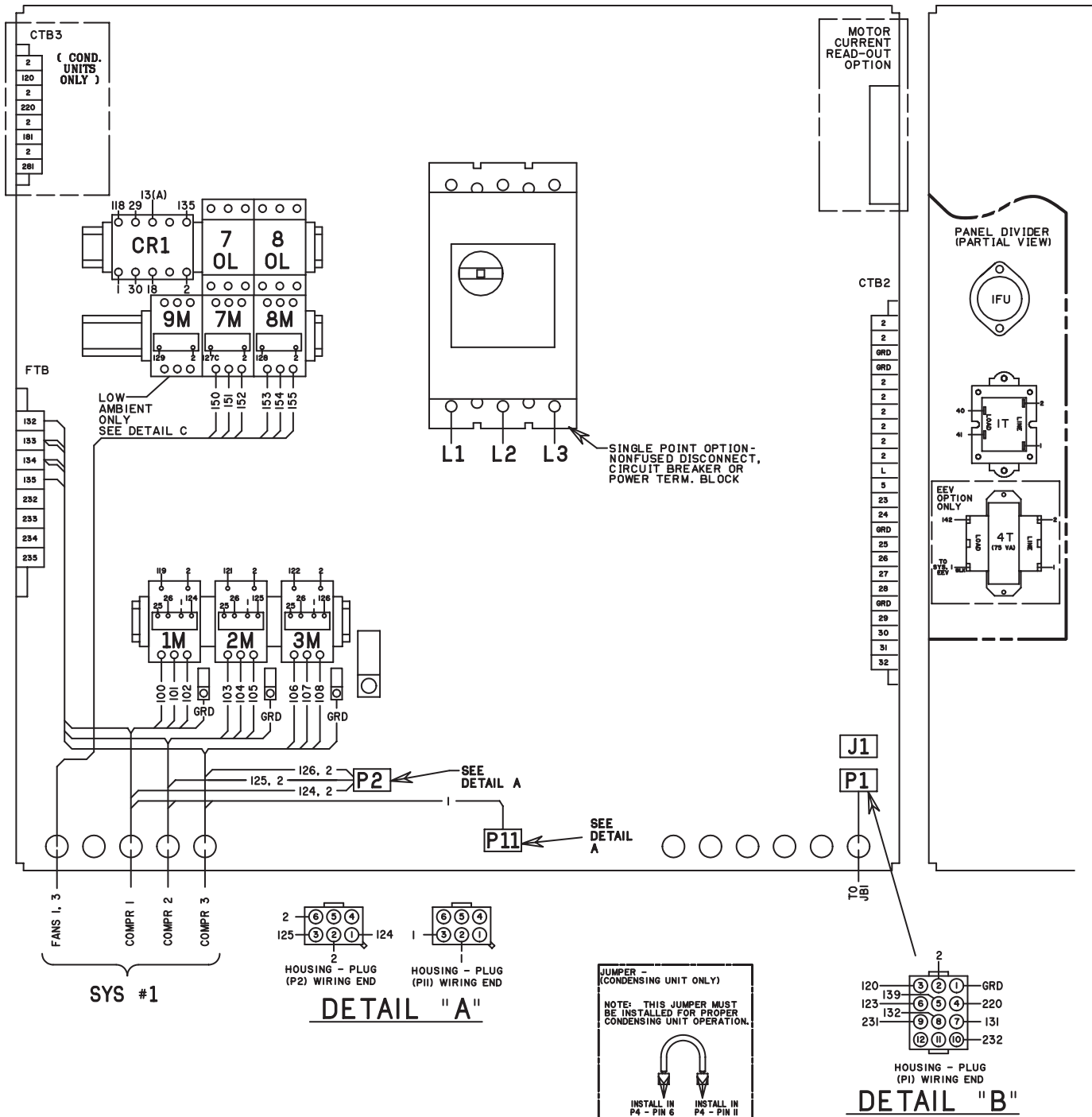
LD08859

FIG. 11 - ELEMENTARY DIAGRAM, POWER CIRCUIT - YCAL0034E_

This page intentionally left blank.

CONNECTION DIAGRAM YCAL0034E_

POWER PANEL



LD08861

FIG. 12 - CONNECTION DIAGRAM, MIDDLE MARKET - YCAL0034E_

The diagram illustrates the Microprocessor Board and its associated components. At the top, a 'TEMP RESET OPTION' is shown with a thermal switch (TBI) and a reset circuit. The main board contains several terminal blocks (TB1, TB2, TB3, TB4, TB5, TB6) and a central 'MICROPROCESSOR BOARD'. The board is populated with various integrated circuits (J1, J2, J3, J4, J5, J6, J7, J8, J9, J10) and a 'P/J9' component. A 'LOCKING TAB (TYP.)' is shown on the right side. The bottom section shows the 'EEV OUTPUT BOARD' and the 'CTBI' (Circuit Test Board Interface) with a 40-pin connector. The diagram includes detailed wiring and component labels for the 'EEV OPTION ONLY' and 'TO SYS. #1 EEV' connections.

BOARD PLUG NO.	CABLE ITEM NO.	CABLE CODE	WIRE COLOR	PLUG PIN NO.	FUNCTION	LEGEND
MICRO P4	19	[4]	RED	5	SYS. ϕ SUCTION PRESSURE	ISPT
			WHT	10		
			BLK	1		
	(OPTIONAL KIT)	[6]	DRAIN	2	SYS. ϕ DISCHARGE PRESSURE	IDPT
			RED	7		
			WHT	12		
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		
MICRO P5	19	[2]	BLK	4	OUTSIDE AIR TEMP.	OAT
			RED	7		
			DRAIN	1		
	STANDARD KIT	[15]	RED	12	SYS. ϕ LIQ. TEMP. SENSOR	ILTS
			BLK	7		
			DRAIN	2		
EEV OUTPUT BOARD AND TRANS FORMER 4T, 5T	(OPTIONAL KIT)	[8]	RED	14	SYS. ϕ SUCTION TEMP. SENSOR	ISTS
			BLK	9		
			DRAIN	4		
			BLK	4T (TRANS)		
	(OPTIONAL KIT)	[10]	RED	EEV OUTPUT BOARD	SYS. ϕ EEV OUTPUT	IEEV

DETAIL "C"

NOTE: TERMINAL LOCATIONS MAY VARY BY CONTACTOR MANUFACTURER. ELECTRICAL CONNECTIONS AS SHOWN.

Wiring diagram for Detail "C" showing three modules (9M, 7M, 8M) and a FAN #1. The diagram includes terminal locations (L1, L2, L3, IT1, IT2, IT3), jumper bars, and specific wire types (129 RED, 127C RED, 127B RED). A note indicates that terminal locations may vary by manufacturer. A fan is connected to the bottom of the modules.

ELEMENTARY DIAGRAM
YCAL0034E_

ELEMENTARY DIAGRAM
MIDDLE MARKET
STANDARD AND REMOTE EVAPORATOR UNITS

035-19213-105
REV. B

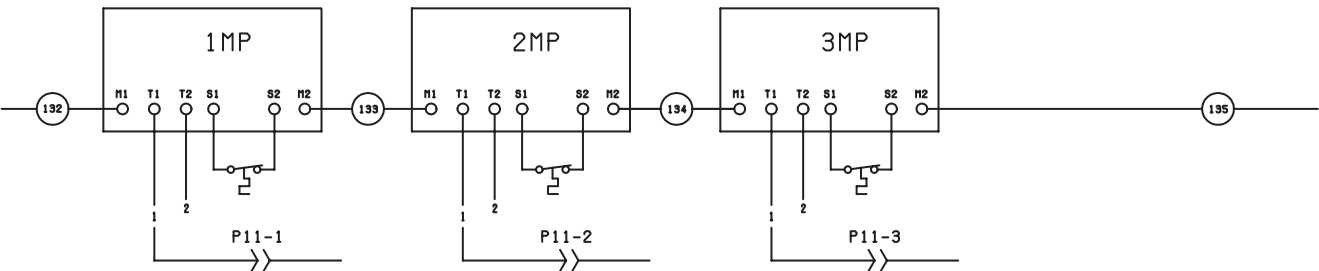
NOTES:

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 1) 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

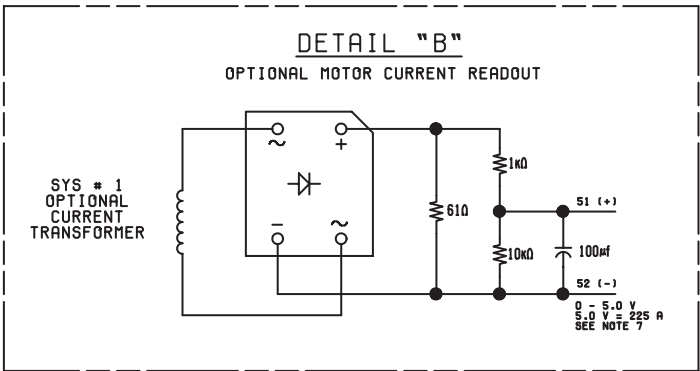
- TS TRANSIENT VOLTAGE SUPPRESSION
- TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
- TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
- TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
- WIRING AND COMPONENTS BY YORK
- OPTIONAL EQUIPMENT
- WIRING AND/OR COMPONENTS BY OTHERS

DETAIL "A"



DETAIL "B"

OPTIONAL MOTOR CURRENT READOUT

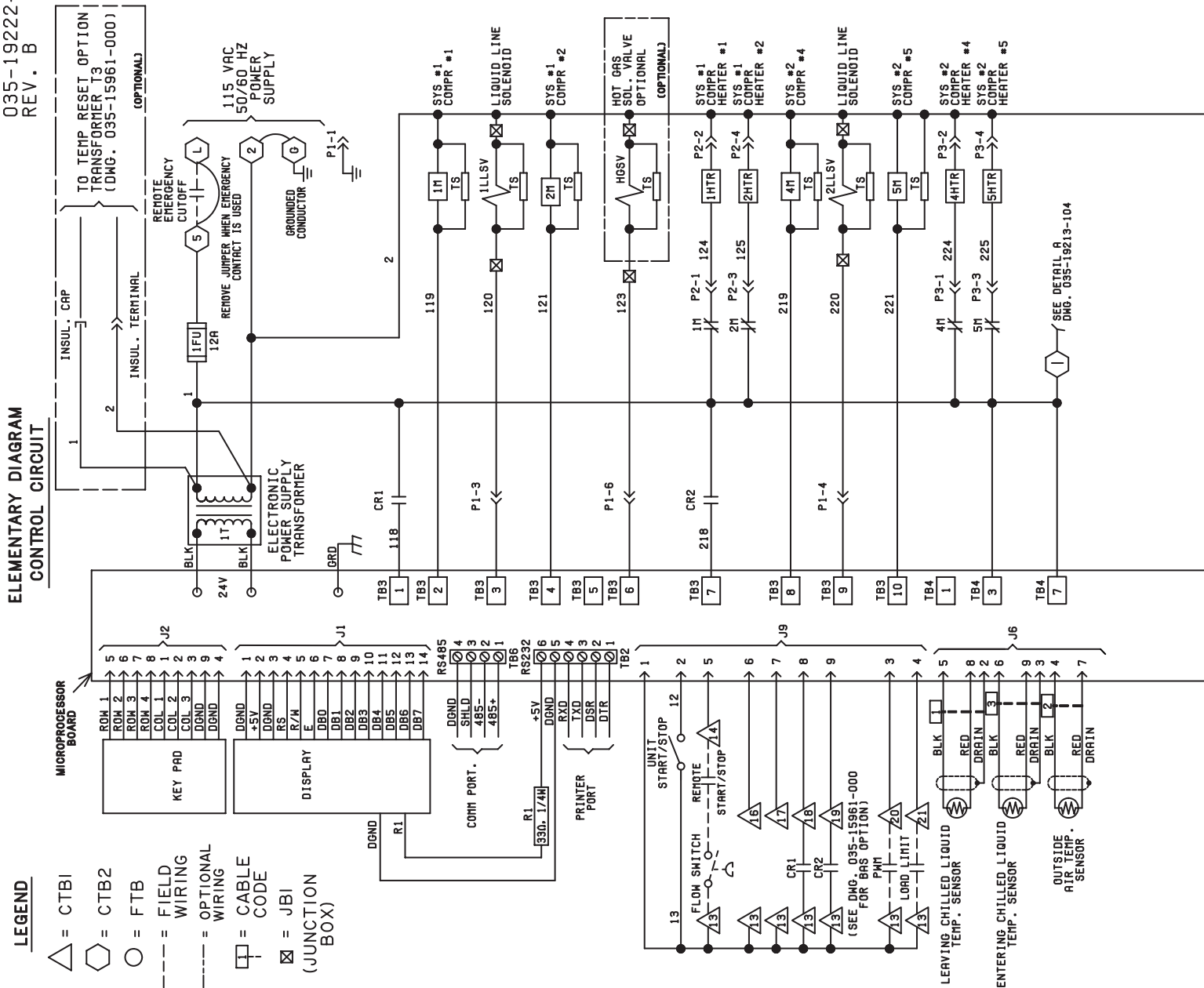


LD08863

FIG. 13 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0034E_

This page intentionally left blank.

ELEMENTARY DIAGRAM
YCAL0040E_ – YCAL0060E_

035-19222-101
REV. B

LD08864

FIG. 14 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0040E_ - YCAL0060E

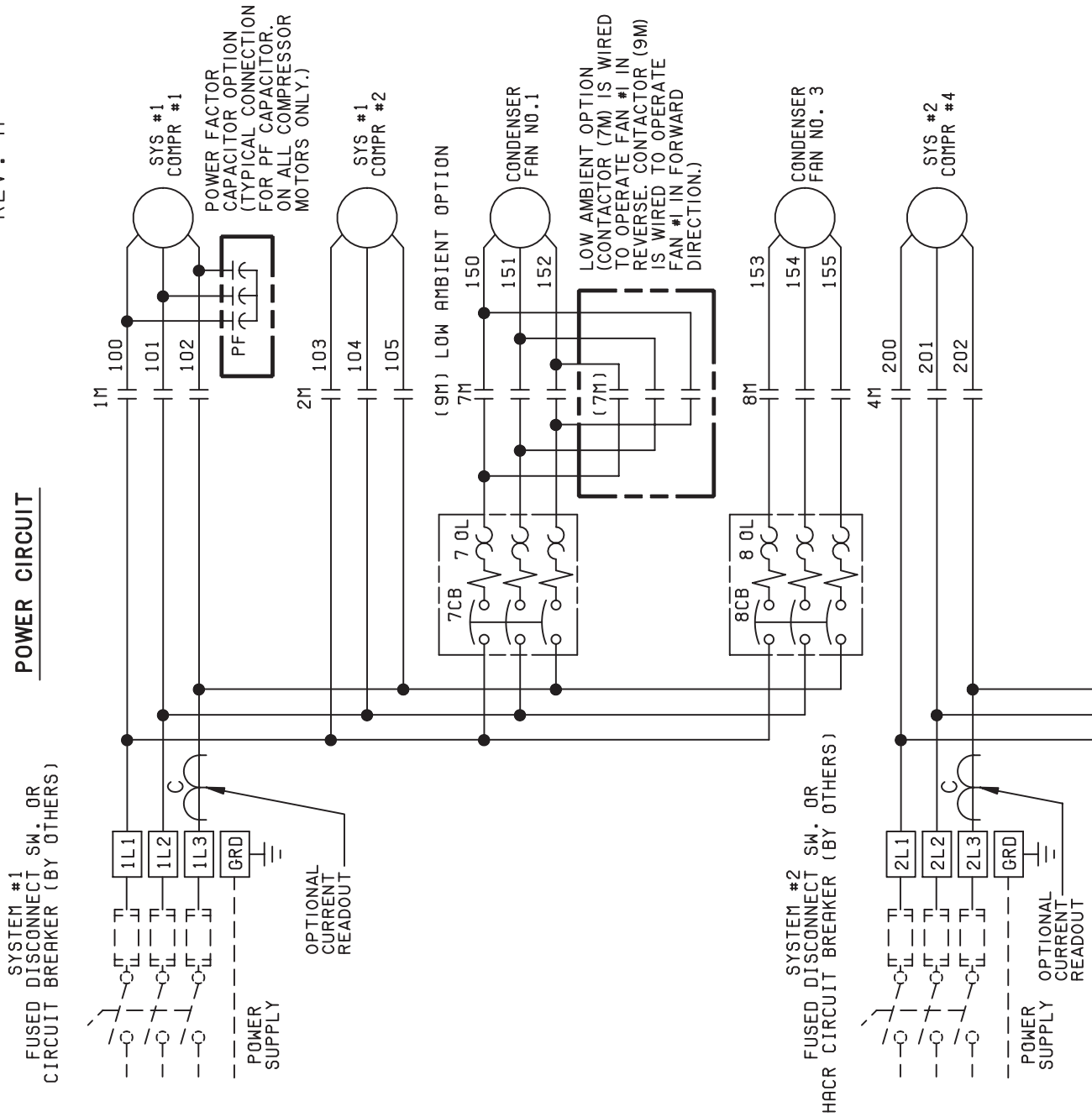


ELEMENTARY DIAGRAM **YCAL0040E_ - YCAL0060E_**

035-19201C102
REV. A

ELEMENTARY DIAGRAM

POWER CIRCUIT



LD08866

FIG. 15 - ELEMENTARY DIAGRAM, POWER CIRCUIT - YCAL0040E_ - YCAL0060E_

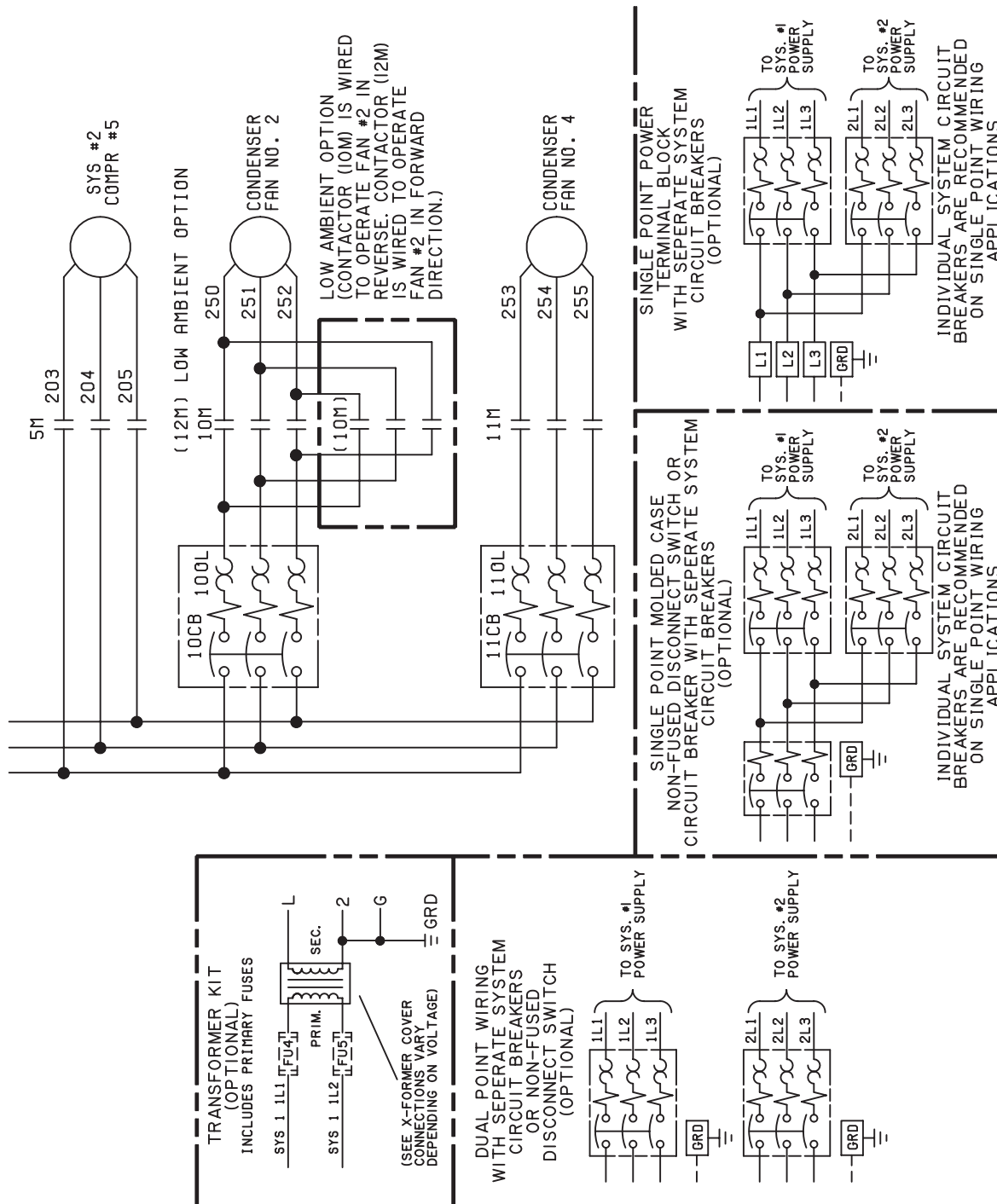


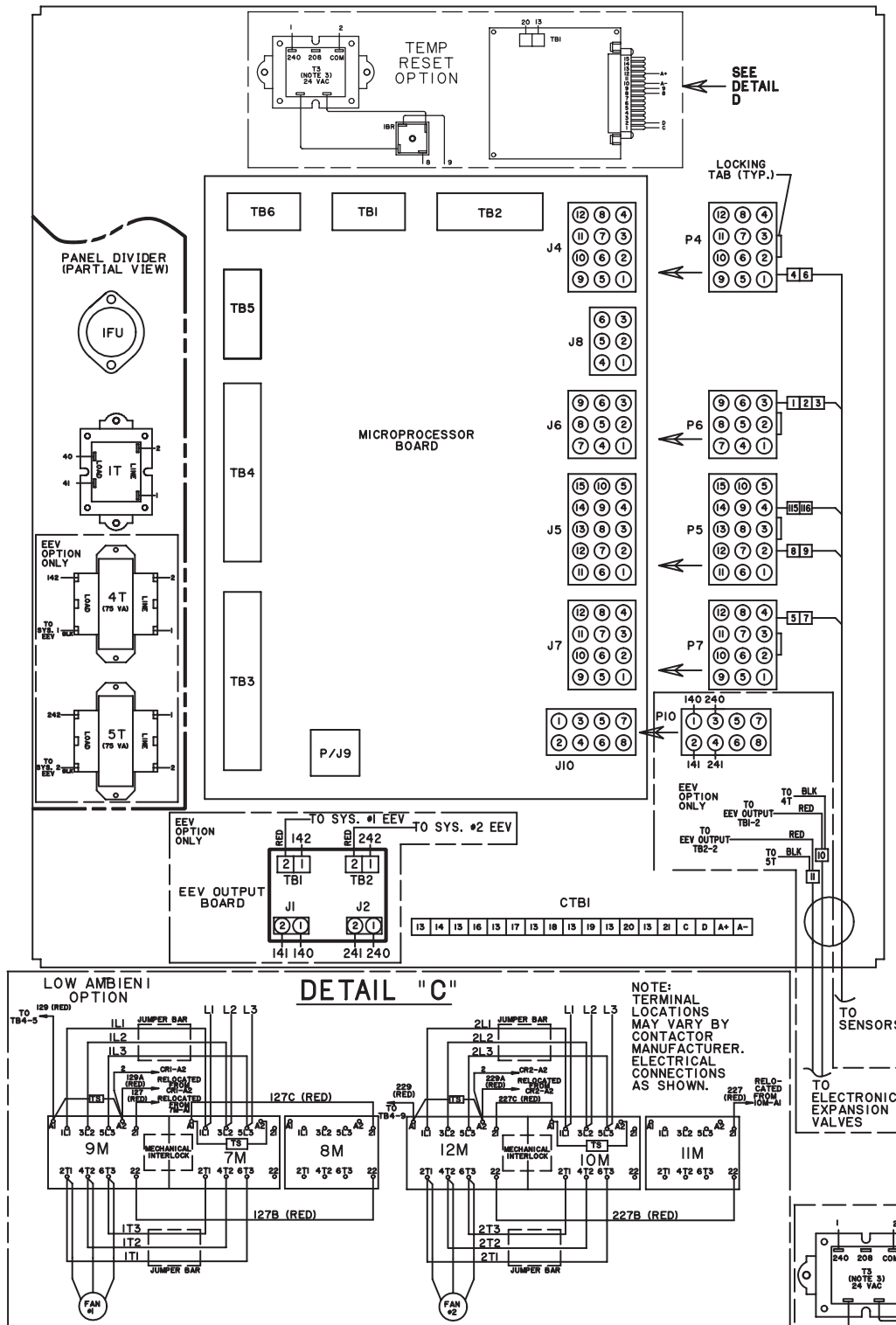
FIG. 16 – CONNECTION DIAGRAM, MIDDLE MARKET – YCAL0040E_ - YCAL0060E_

035-19212-000
REV A

MICRO PANEL

TABLE II

BOARD PLUG NO.	CABLE ITEM NO.	CABLE CODE	WIRE COLOR	PLUG PIN NO.	FUNCTION	LEGEND
MICRO P4	19	4	RED 5 WHT 10 BLK 1	5 10 1	SYS #1 SUCTION PRESSURE	ISPT
	(OPTIONAL KIT)	6	DRAIN 2 RED 7 WHT 12 BLK 8	2 7 12 8	SYS #1 DISCHARGE PRESSURE	IDPT
			DRAIN 9	9		
MICRO P6	19	11	BLK 5 RED 8 DRAIN 2	5 8 2	LEAVING WATER TEMP	LWT
	19	3	BLK 6 RED 9 DRAIN 3	6 9 3	ENTERING WATER TEMP	EWT
	19	2	BLK 4 RED 7 DRAIN 1	4 7 1	OUTSIDE AIR TEMP.	OAT
MICRO P7	19	5	RED 5 WHT 10 BLK 1	5 10 1	SYS #2 SUCTION PRESSURE	2SPT
	(OPTIONAL KIT)	7	RED 7 WHT 12 BLK 8	7 12 8	SYS #2 DISCHARGE PRESSURE	2DPT
			DRAIN 9	9		
MICRO P5	STANDARD 40°C	11A	RED 12 BLK 7 DRAIN 2	12 7 2	SYS #1 LIQ. TEMP. SENSOR	1LTS
	STANDARD 40°C	11B	RED 13 BLK 8 DRAIN 3	13 8 3	SYS #2 LIQ. TEMP. SENSOR	2LTS
	(OPTIONAL KIT)	8	RED 14 BLK 9 DRAIN 4	14 9 4	SYS #1 SUCTION TEMP. SENSOR	1STS
	(OPTIONAL KIT)	9	RED 15 BLK 10 DRAIN 5	15 10 5	SYS #2 SUCTION TEMP. SENSOR	2STS
	EEV OUTPUT BOARD AND TRANS FORMER KIT, ST (OPTIONAL)	10	BLK 4T (TRANS) RED EEV OUTPUT BOARD TBI-2	4T 1 2	SYS #1 EEV OUTPUT	1EEV
	(OPTIONAL KIT)	11	BLK 5T (TRANS) RED EEV OUTPUT BOARD TBI-2	5T 1 2	SYS #2 EEV OUTPUT	2EEV

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

ELEMENTARY DIAGRAM YCAL0040E_ – YCAL0060E_

ELEMENTARY DIAGRAM MIDDLE MARKET STANDARD AND REMOTE EVAPORATOR UNITS

035-19213-104
REV. B

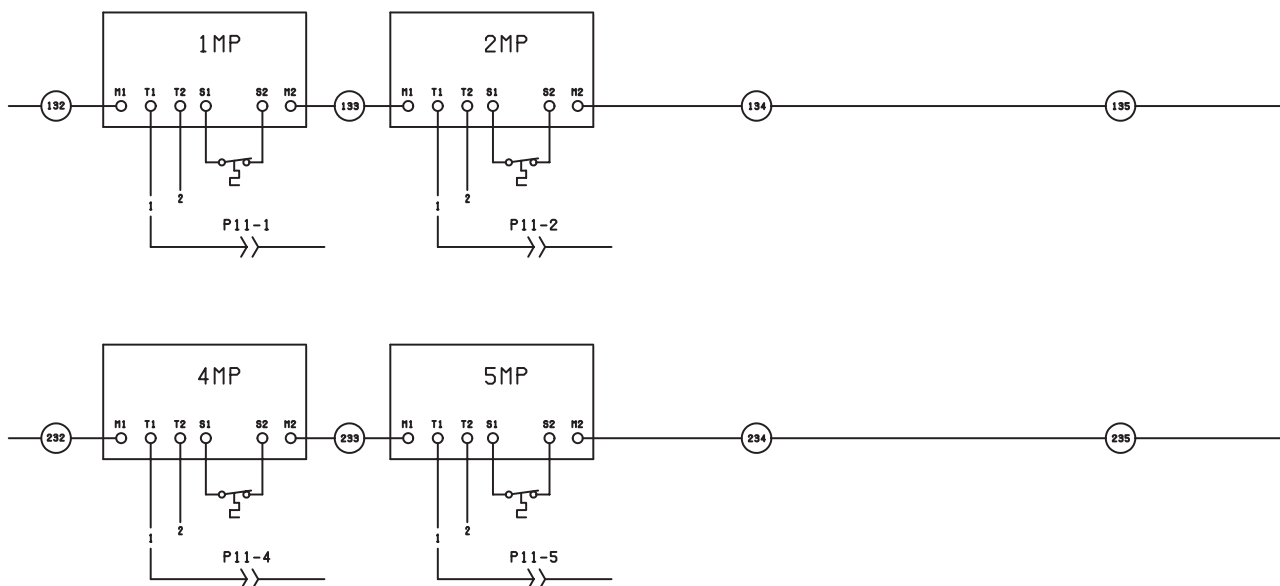
NOTES:

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 1) 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

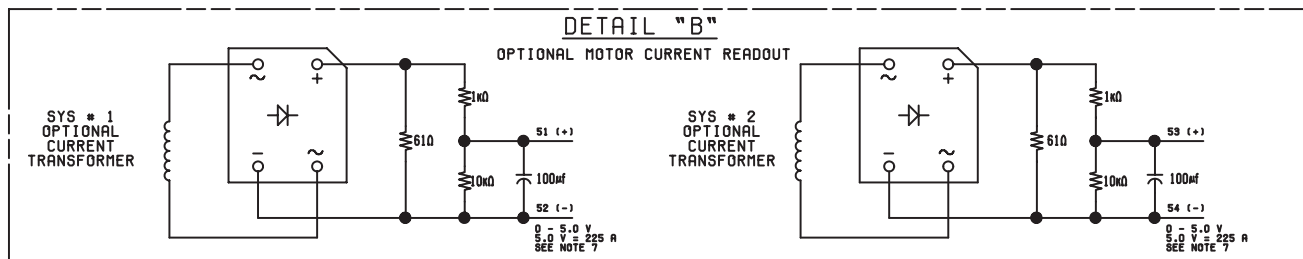
- | | |
|----|--|
| TS | TRANSIENT VOLTAGE SUPPRESSION |
| | TERMINAL BLOCK FOR CUSTOMER CONNECTIONS |
| | TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2. |
| | TERMINAL BLOCK FOR YORK CONNECTIONS ONLY |
| | WIRING AND COMPONENTS BY YORK |
| | OPTIONAL EQUIPMENT |
| | WIRING AND/OR COMPONENTS BY OTHERS |

DETAIL "A"



DETAIL "B"

OPTIONAL MOTOR CURRENT READOUT



LD08870

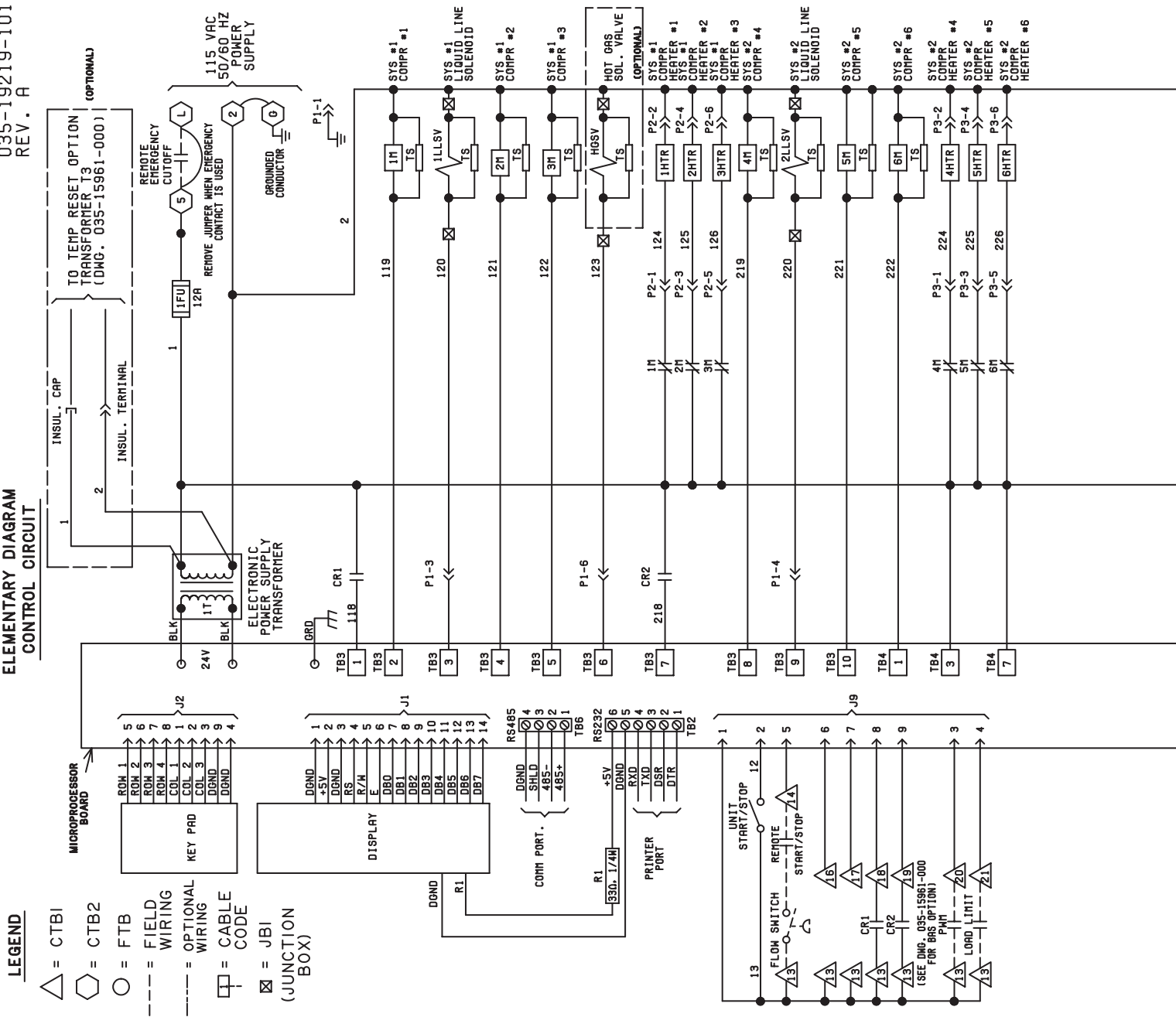
FIG. 17 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0040E_ - YCAL0060E_

This page intentionally left blank.

ELEMENTARY DIAGRAM
YCAL0064E_ – YCAL0080E_

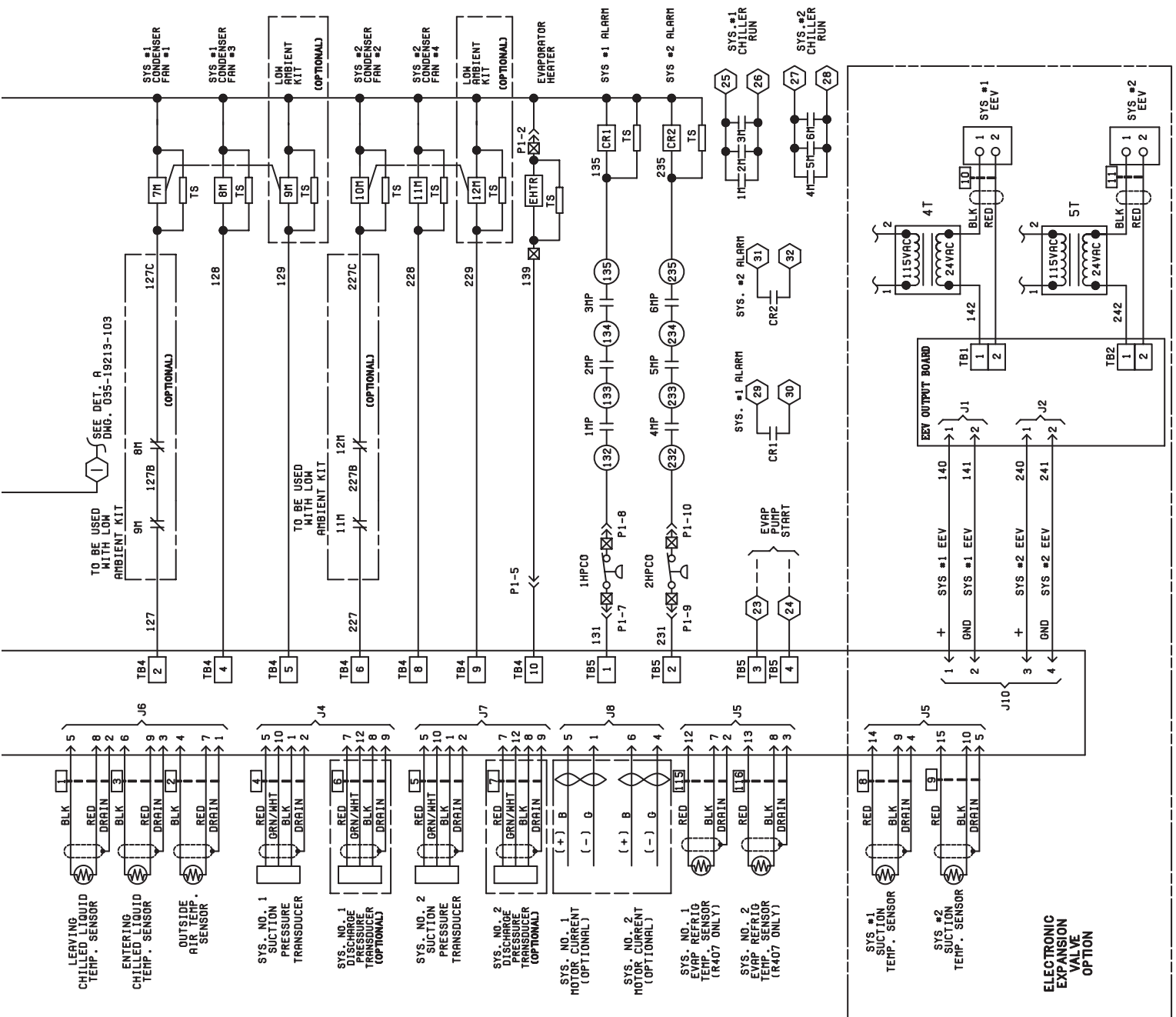
035-19219-101
REV. A

ELEMENTARY DIAGRAM CONTROL CIRCUIT

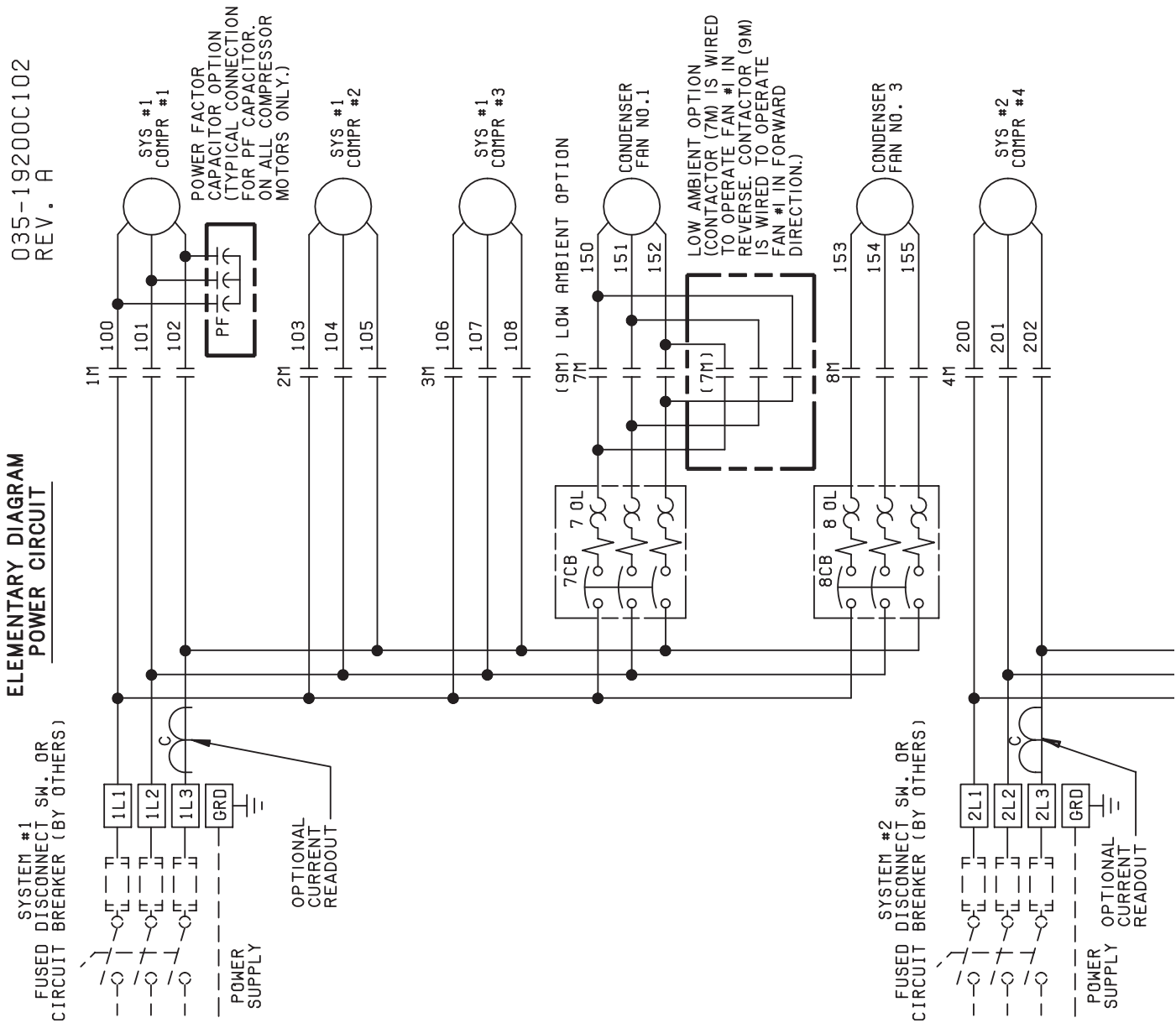


LD08871

FIG. 18 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0064E_ - YCAL0080E_

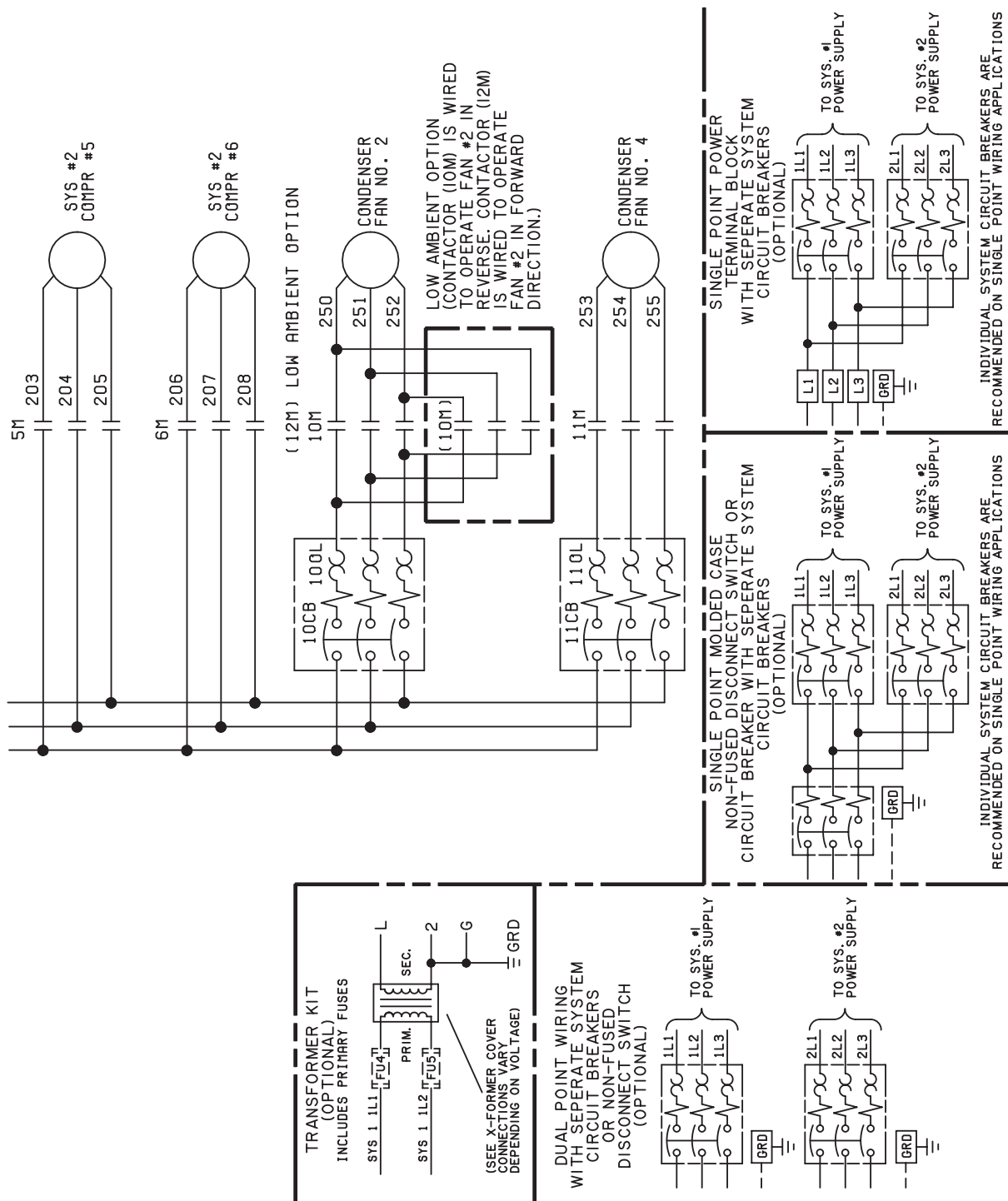


ELEMENTARY DIAGRAM **YCAL0064E_ - YCAL0080E_**



LD08876

FIG. 19 - ELEMENTARY DIAGRAM, POWER CIRCUIT - YCAL0064E_ - YCAL0080E_



LD08873

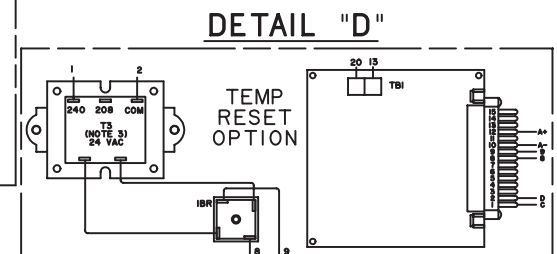
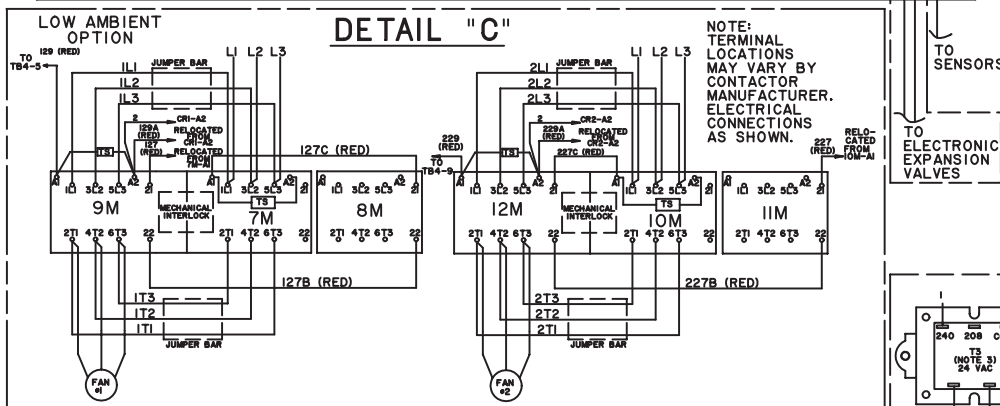
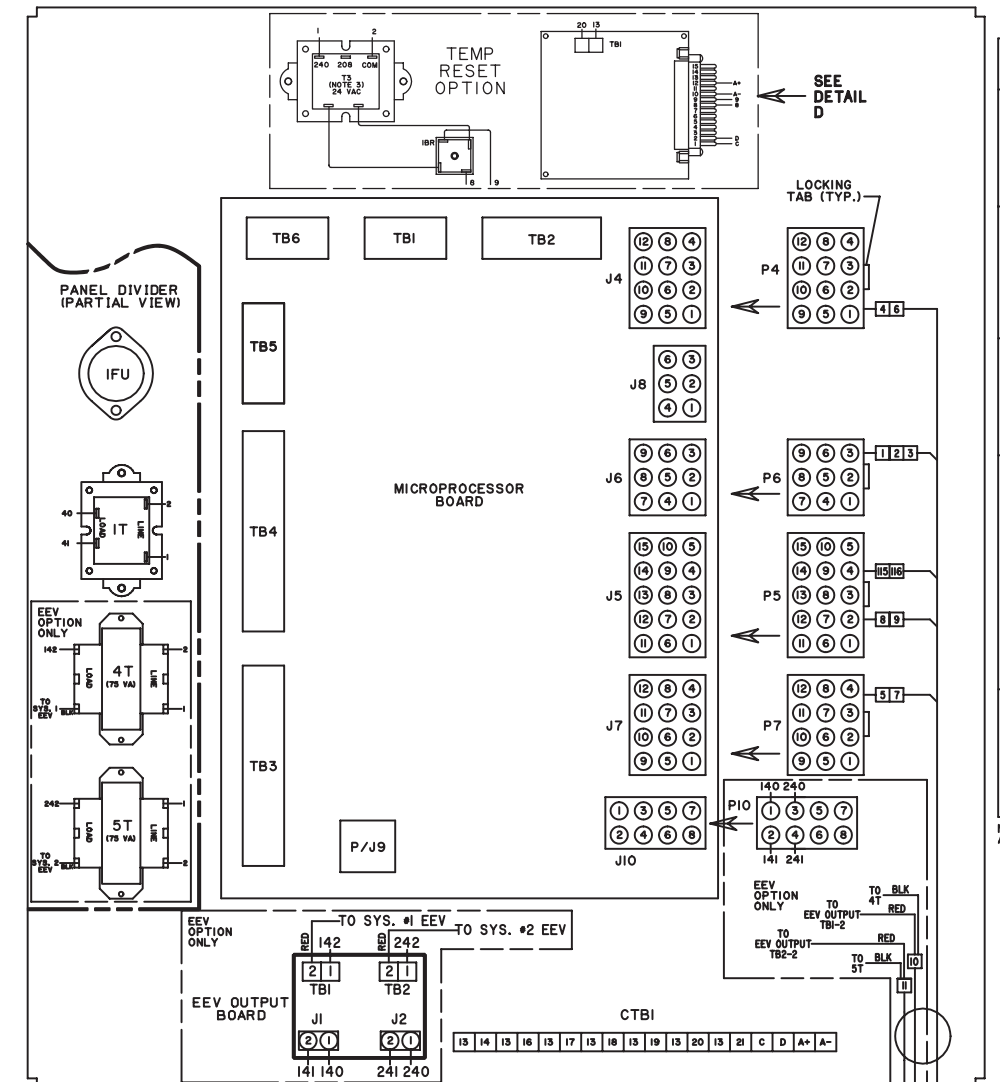
YORK INTERNATIONAL

035-19214-000
REV A

MICRO PANEL

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		
MICRO P6	19	6	RED	7	SYS #1 DISCHARGE PRESSURE	IDPT
			WHT	12		
			BLK	8		
MICRO P7	19	7	RED	5	LEAVING WATER TEMP	LWT
			WHT	8		
			BLK	2		
MICRO P5	19	3	RED	9	ENTERING WATER TEMP	EWT
			BLK	6		
			WHT	3		
MICRO P3	19	2	RED	7	OUTSIDE AIR TEMP.	OAT
			WHT	1		
			BLK	4		
MICRO P1	19	5	RED	5	SYS #2 SUCTION PRESSURE	2SPT
			WHT	10		
			BLK	1		
MICRO P2	19	4	RED	7	SYS #2 DISCHARGE PRESSURE	2DPT
			WHT	12		
			BLK	8		
MICRO P4	STANDARD 407C	113	RED	12	SYS #1 LIQ. TEMP. SENSOR	1LTS
			BLK	7		
			DRAIN	2		
MICRO P5	STANDARD 407C	116	RED	13	SYS #2 LIQ. TEMP. SENSOR	2LTS
			BLK	8		
			DRAIN	3		
MICRO P6	OPTIONAL KIT	8	RED	14	SYS #1 TEMP. SENSOR	1STS
			BLK	9		
			DRAIN	4		
MICRO P7	OPTIONAL KIT	9	RED	15	SYS #2 TEMP. SENSOR	2STS
			BLK	10		
			DRAIN	5		
MICRO P8	OPTIONAL KIT	10	BLK	4T (TRANS)	SYS #1 EEV OUTPUT	1EEV
			RED	5T (TRANS)		
			RED	5T (TRANS)	SYS #2 EEV OUTPUT	2EEV
MICRO P9	OPTIONAL KIT	11	BLK	4T (TRANS)		
			RED	5T (TRANS)		
			RED	5T (TRANS)		

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

ELEMENTARY DIAGRAM YCAL0064E_ – YCAL0080E_

ELEMENTARY DIAGRAM MIDDLE MARKET STANDARD AND REMOTE EVAPORATOR UNITS

035-19213-103
REV. B

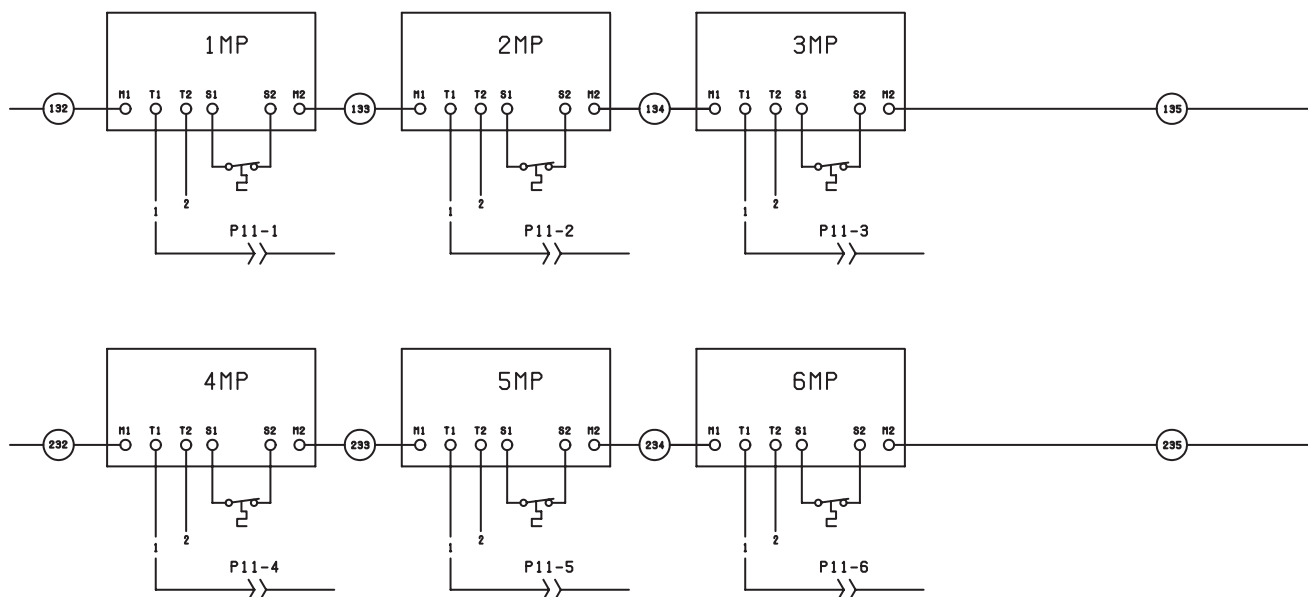
NOTES:

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 1) 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

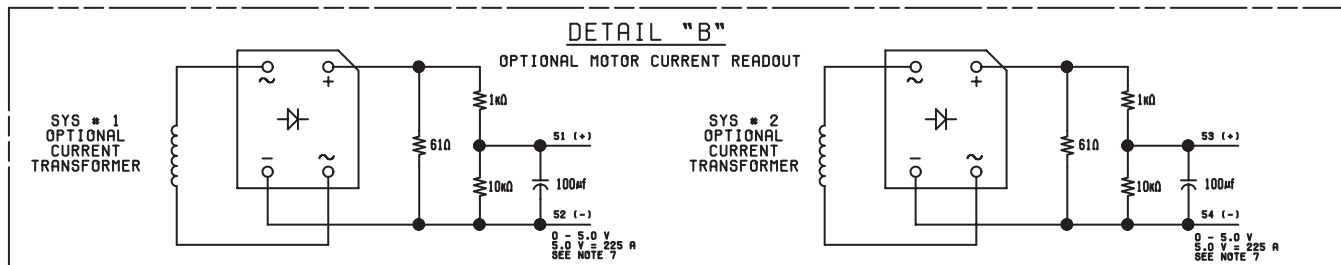
TS	TRANSIENT VOLTAGE SUPPRESSION
	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
	WIRING AND COMPONENTS BY YORK
	OPTIONAL EQUIPMENT
	WIRING AND/OR COMPONENTS BY OTHERS

DETAIL "A"



DETAIL "B"

OPTIONAL MOTOR CURRENT READOUT

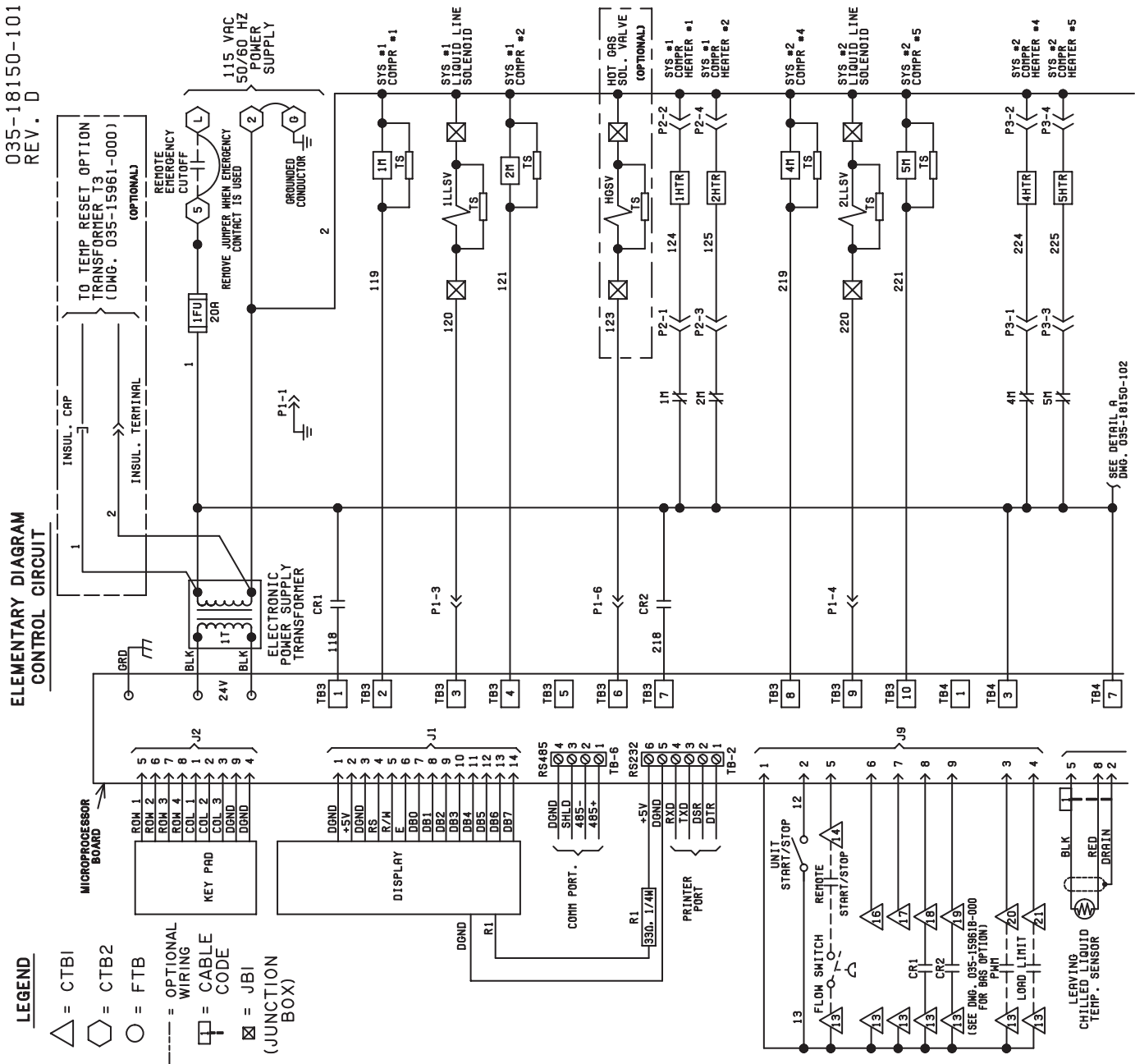


LD08875

FIG. 21 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0064E_ - YCAL0080E_

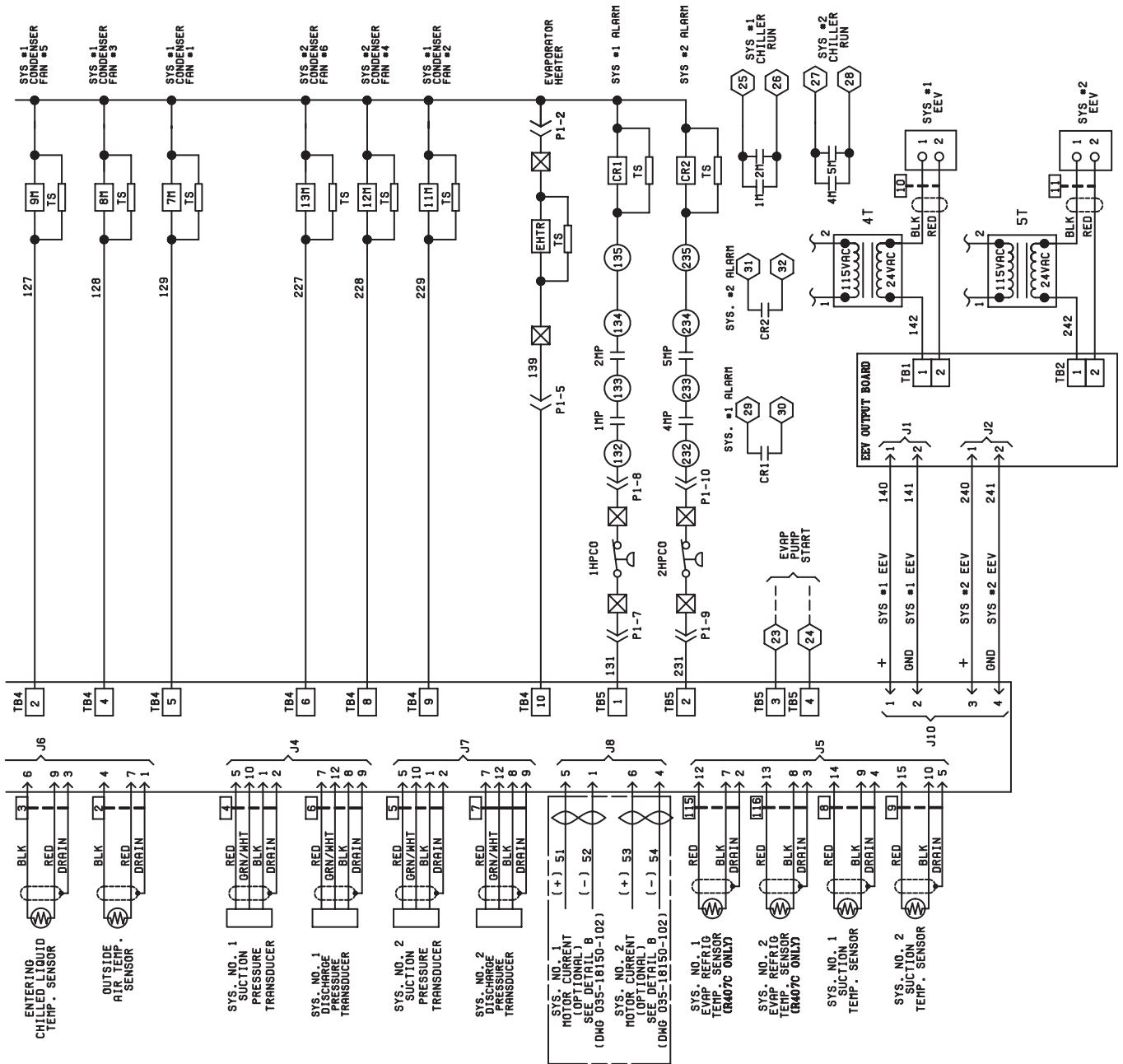
This page intentionally left blank.

ELEMENTARY DIAGRAM YCAL0090E_ - YCAL0094E_

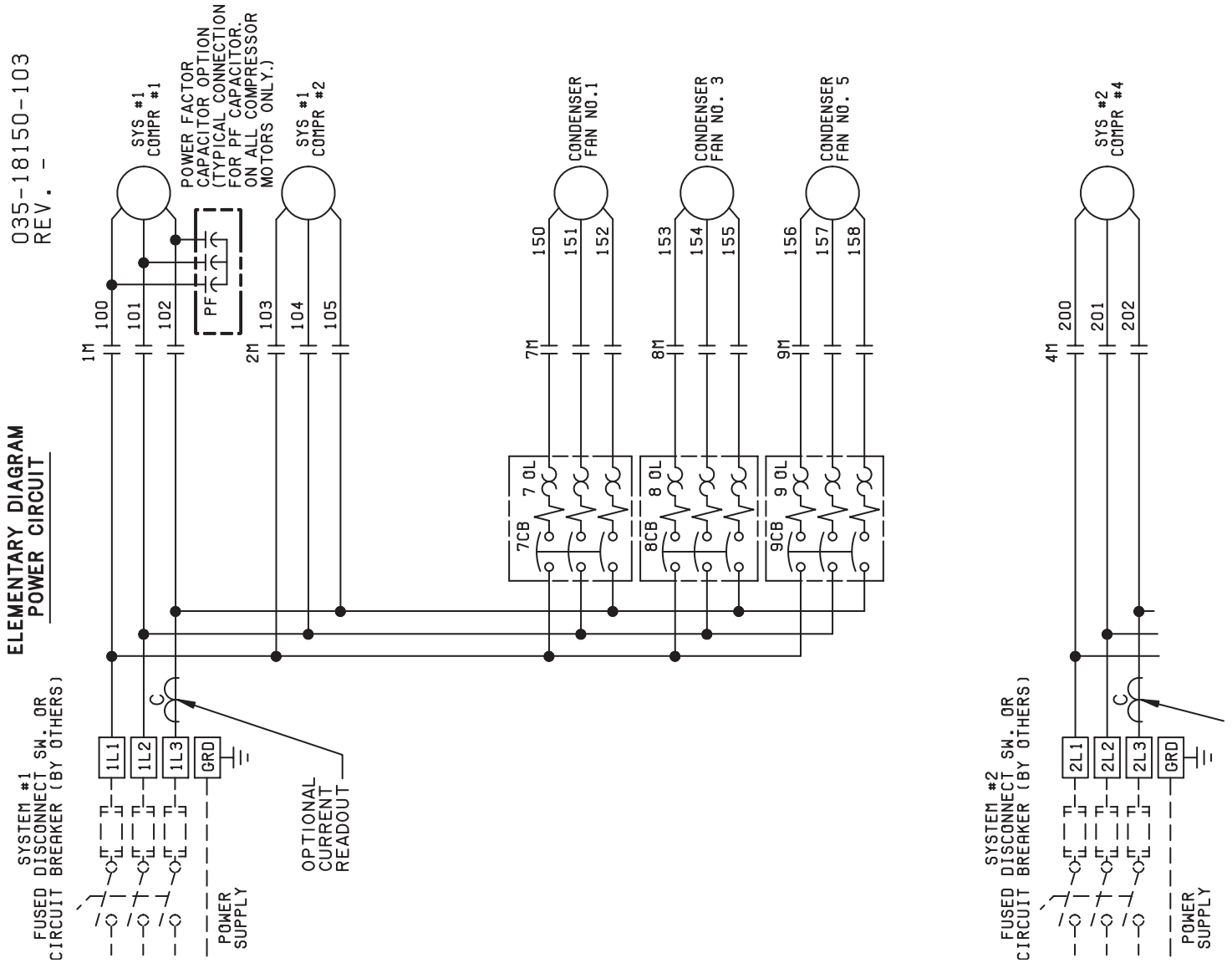


LD08829

FIG. 22 - ELEMENTARY DIAGRAM, CONTROL CIRCUIT - YCAL0090E_ - YCAL0094E_

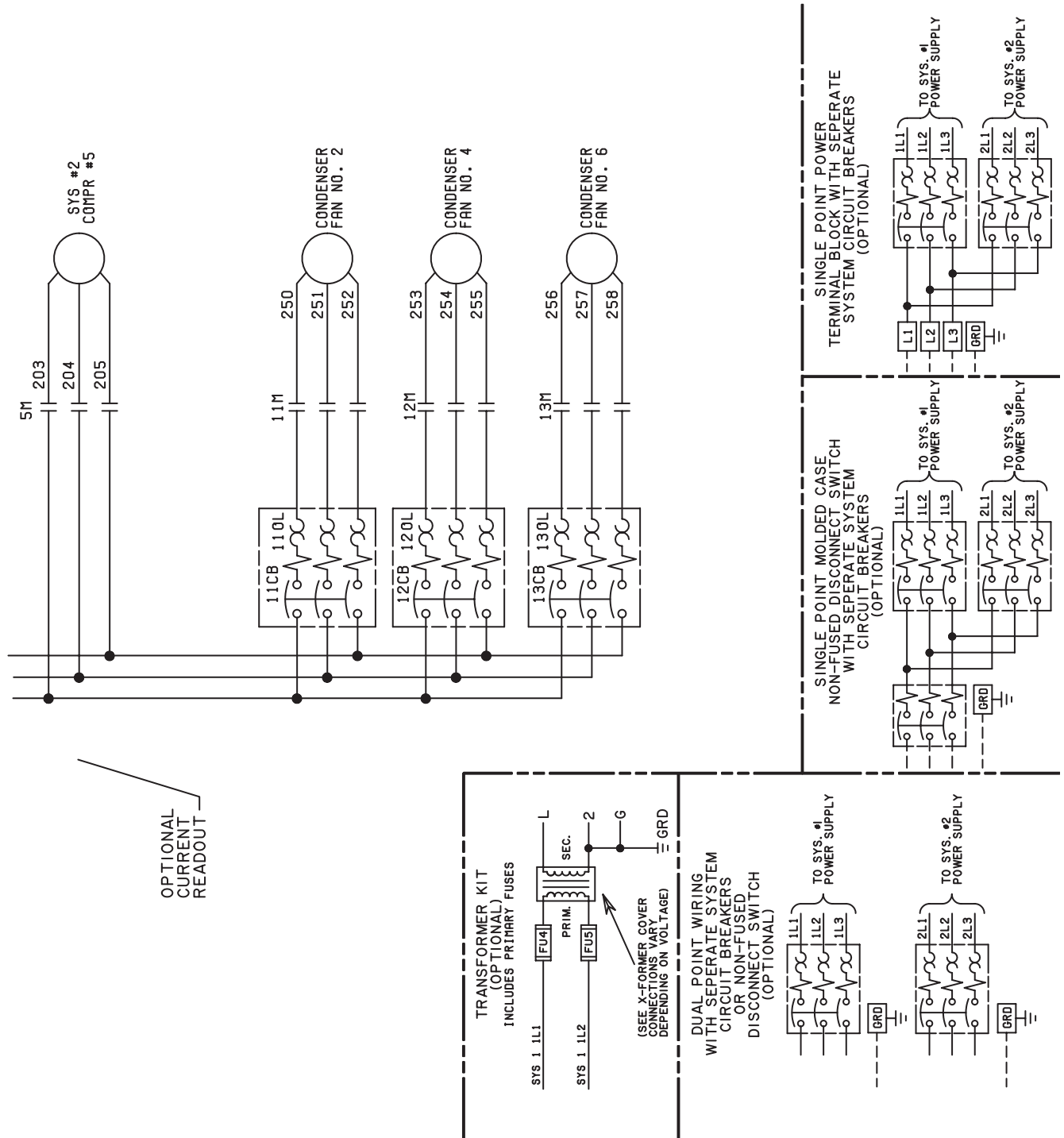


ELEMENTARY DIAGRAM **YCAL0090E_ - YCAL0094E_**

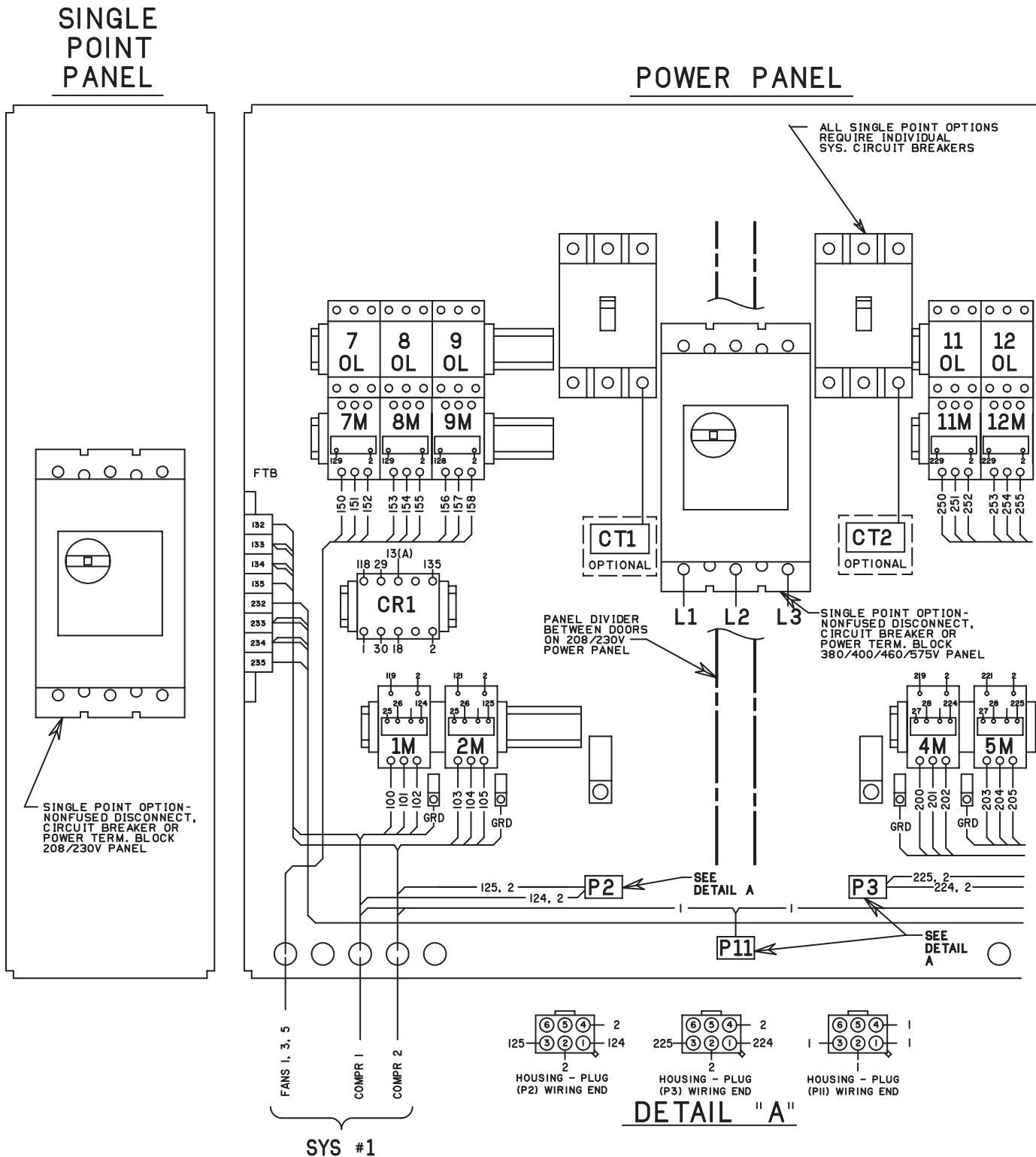


LD08832

FIG. 23 - ELEMENTARY DIAGRAM, POWER CIRCUIT - YCAL0090E_ - YCAL0094E_



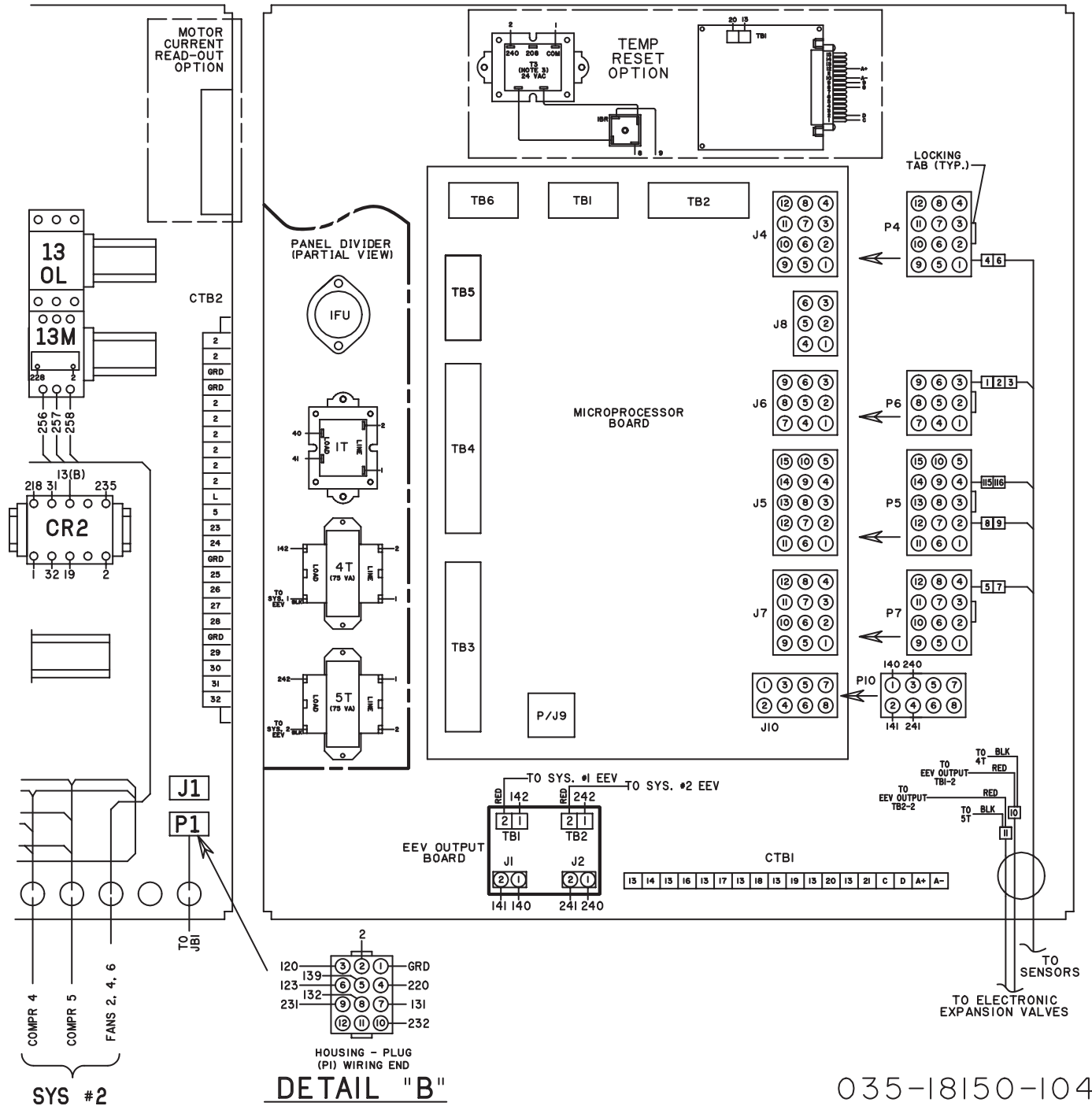
CONNECTION DIAGRAM **YCAL0090E_ – YCAL0094E_**



LD08834

FIG. 24 – CONNECTION DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0090E_ - YCAL0094E_

MICRO PANEL



LD08835

ELEMENTARY DIAGRAM YCAL0090E_ – YCAL0094E_

ELEMENTARY DIAGRAM MIDDLE MARKET HIGH PERFORMANCE STANDARD AND REMOTE EVAPORATOR UNITS

035-18150-102
REV. B

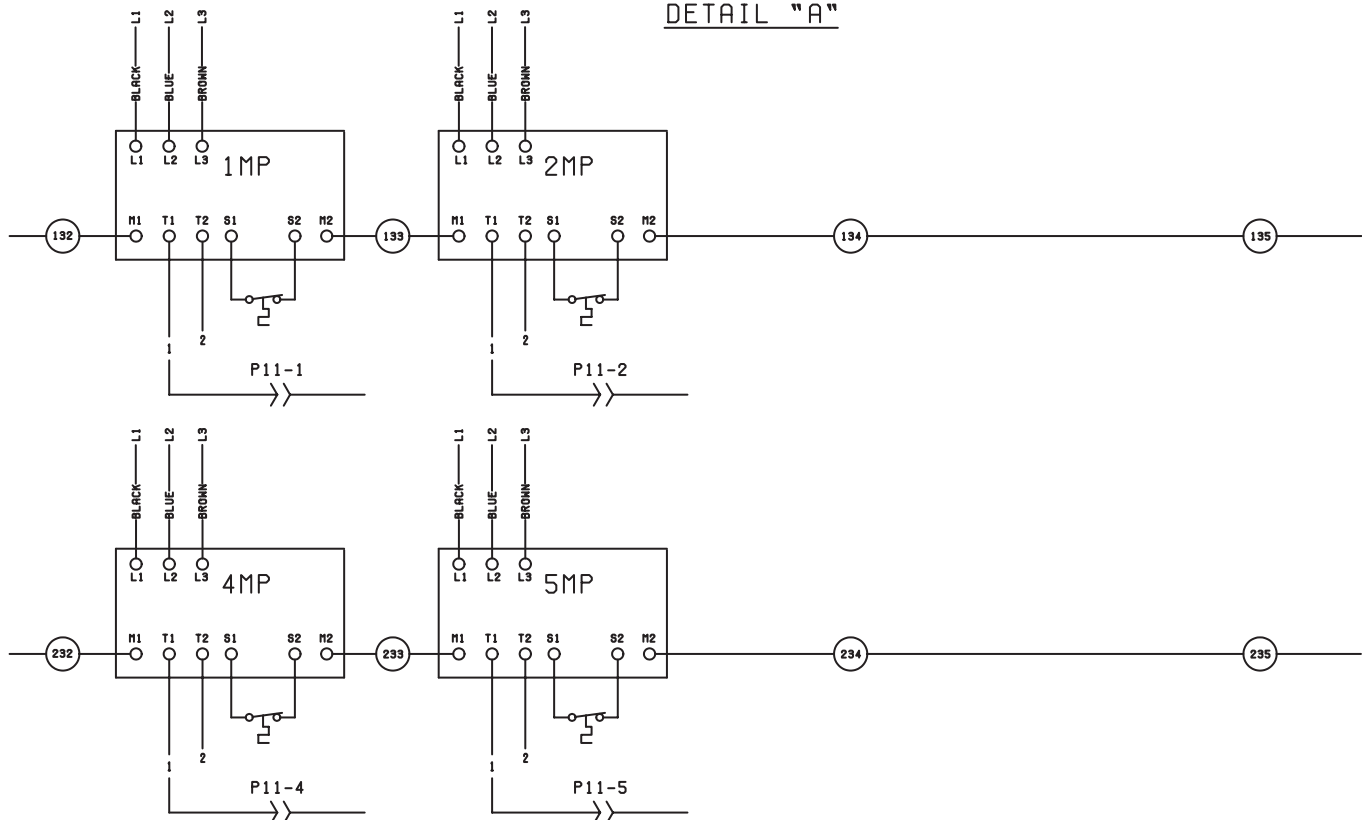
NOTES:

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 1) 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.

LEGEND

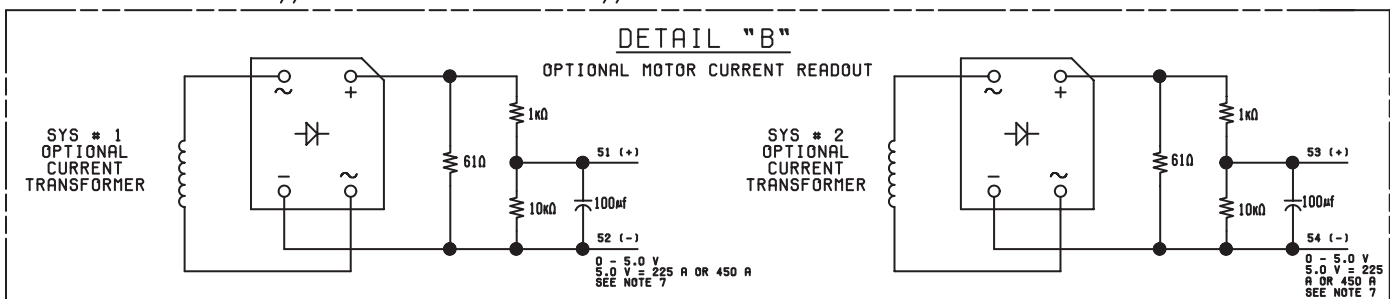
TS	TRANSIENT VOLTAGE SUPPRESSION
	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
	WIRING AND COMPONENTS BY YORK
	OPTIONAL EQUIPMENT
	WIRING AND/OR COMPONENTS BY OTHERS

DETAIL "A"



DETAIL "B"

OPTIONAL MOTOR CURRENT READOUT



LD08831

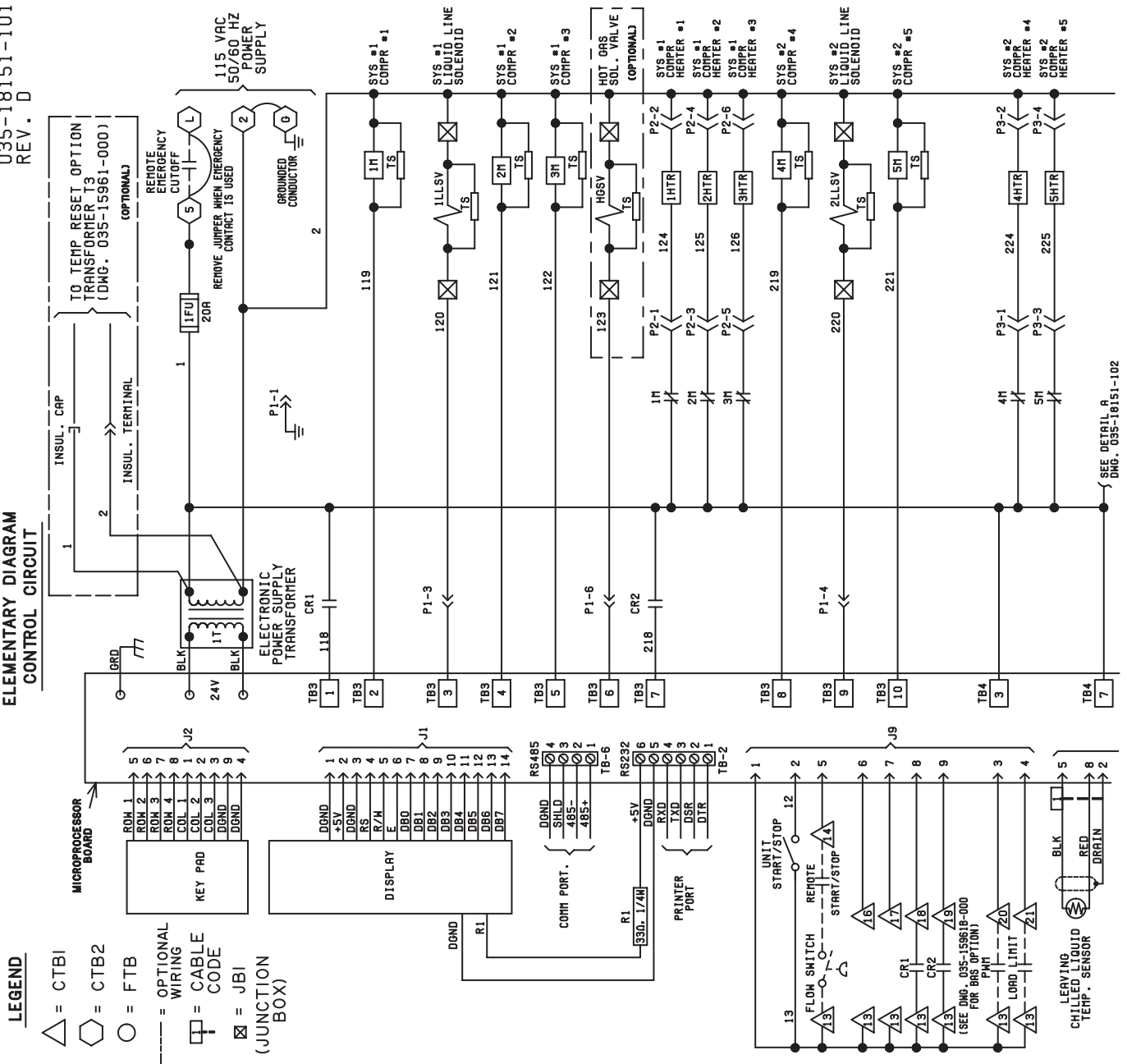
FIG. 25 – ELEMENTARY DIAGRAM, MIDDLE MARKET – YCAL0090E_ - YCAL0094E_

This page intentionally left blank.

ELEMENTARY DIAGRAM
YCAL0104E_

035-18151-101
REV. D

ELEMENTARY DIAGRAM CONTROL CIRCUIT



LD08836

FIG. 26 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0104E

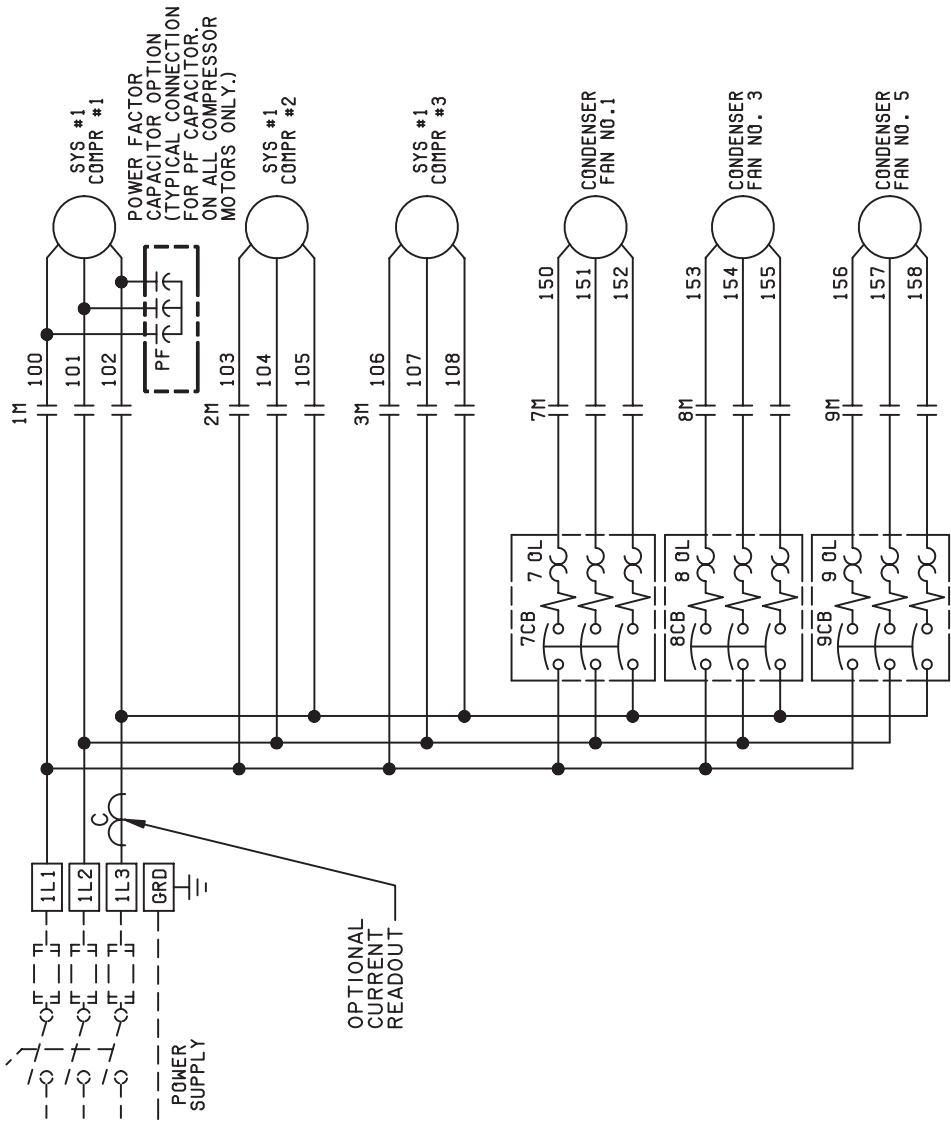


ELEMENTARY DIAGRAM
YCAL0104E_

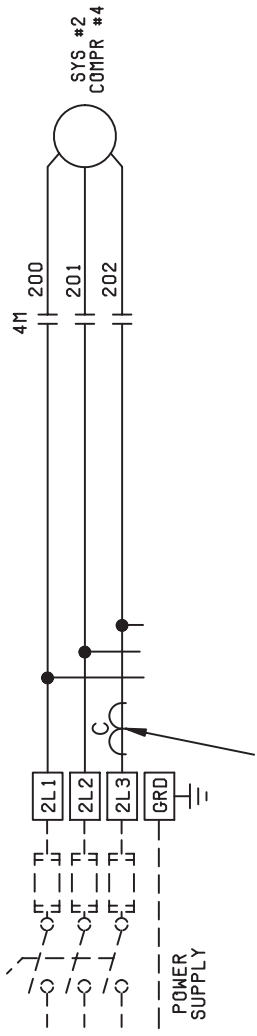
035-18151-103
REV. _

ELEMENTARY DIAGRAM
POWER CIRCUIT

SYSTEM #1
FUSED DISCONNECT SW. OR
CIRCUIT BREAKER (BY OTHERS)

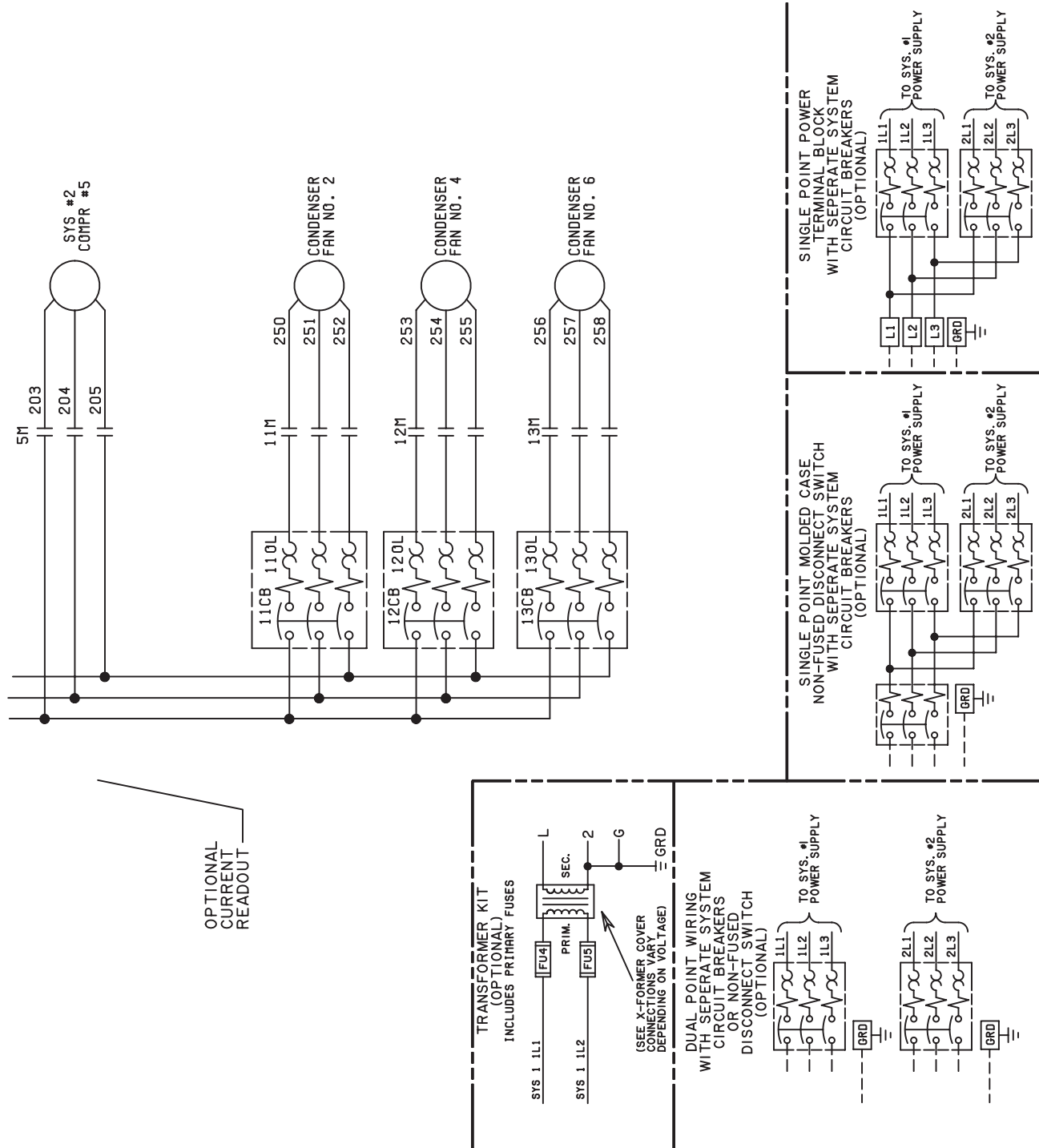


SYSTEM #2
FUSED DISCONNECT SW. OR
CIRCUIT BREAKER (BY OTHERS)



LD08839

FIG. 27 - ELEMENTARY DIAGRAM, POWER CIRCUIT - YCAL0104E_



CONNECTION DIAGRAM

YCAL0104E

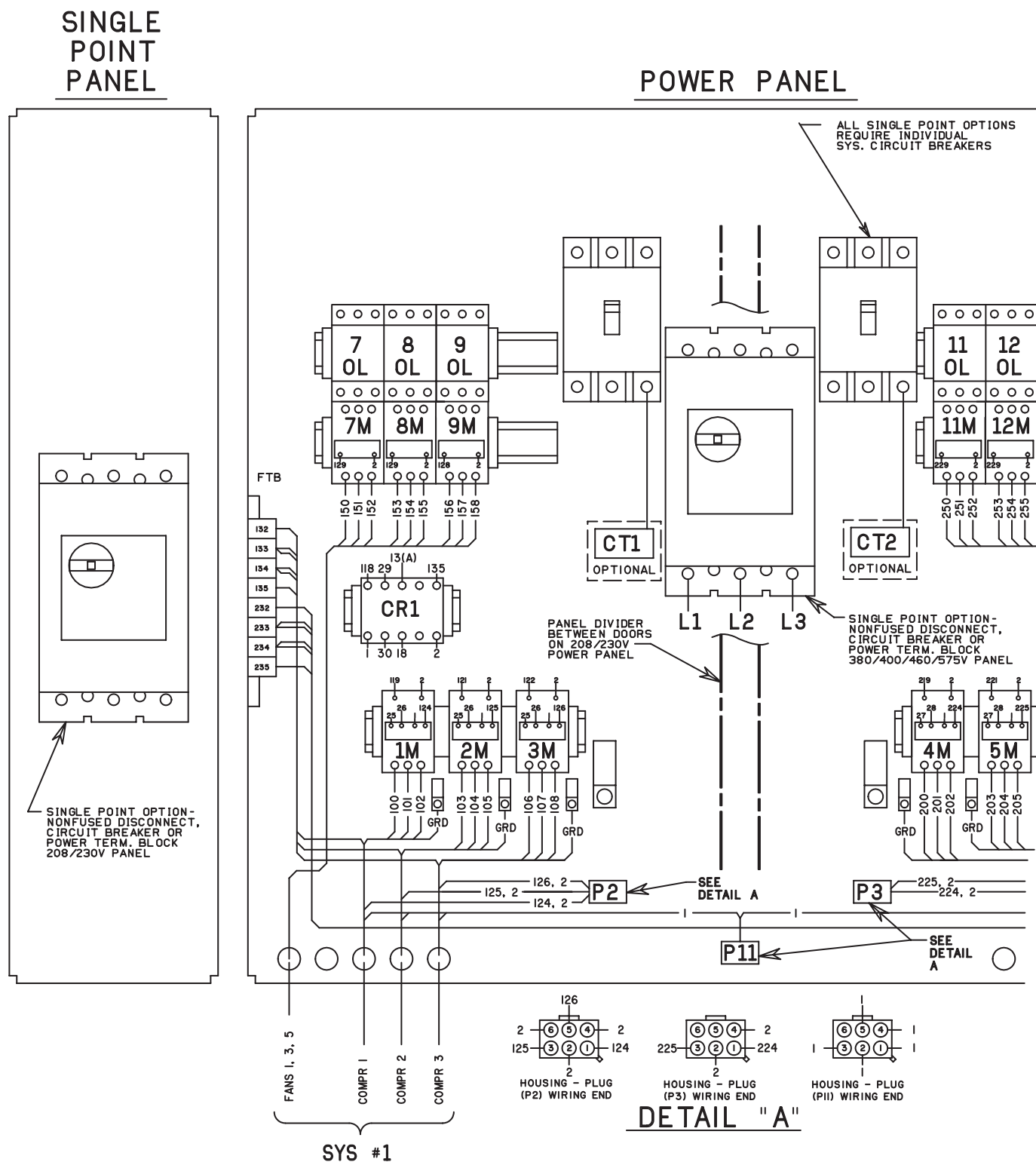
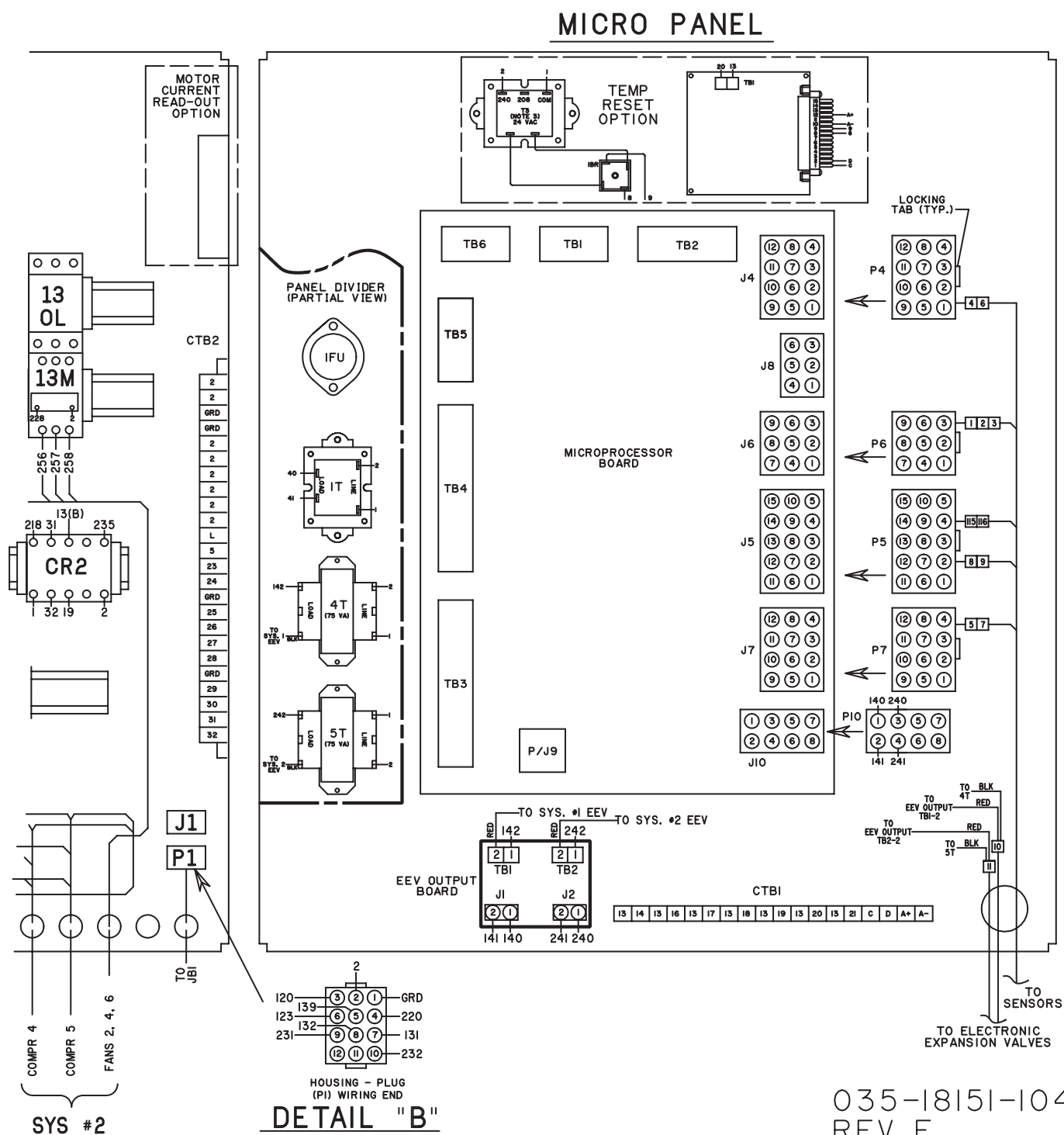


FIG. 28 – CONNECTION DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0104E_



ELEMENTARY DIAGRAM YCAL0104E_

ELEMENTARY DIAGRAM MIDDLE MARKET HIGH PERFORMANCE STANDARD AND REMOTE EVAPORATOR UNITS

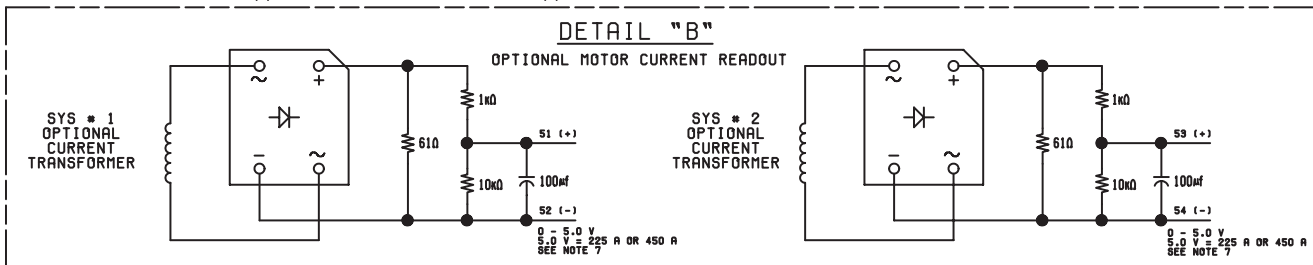
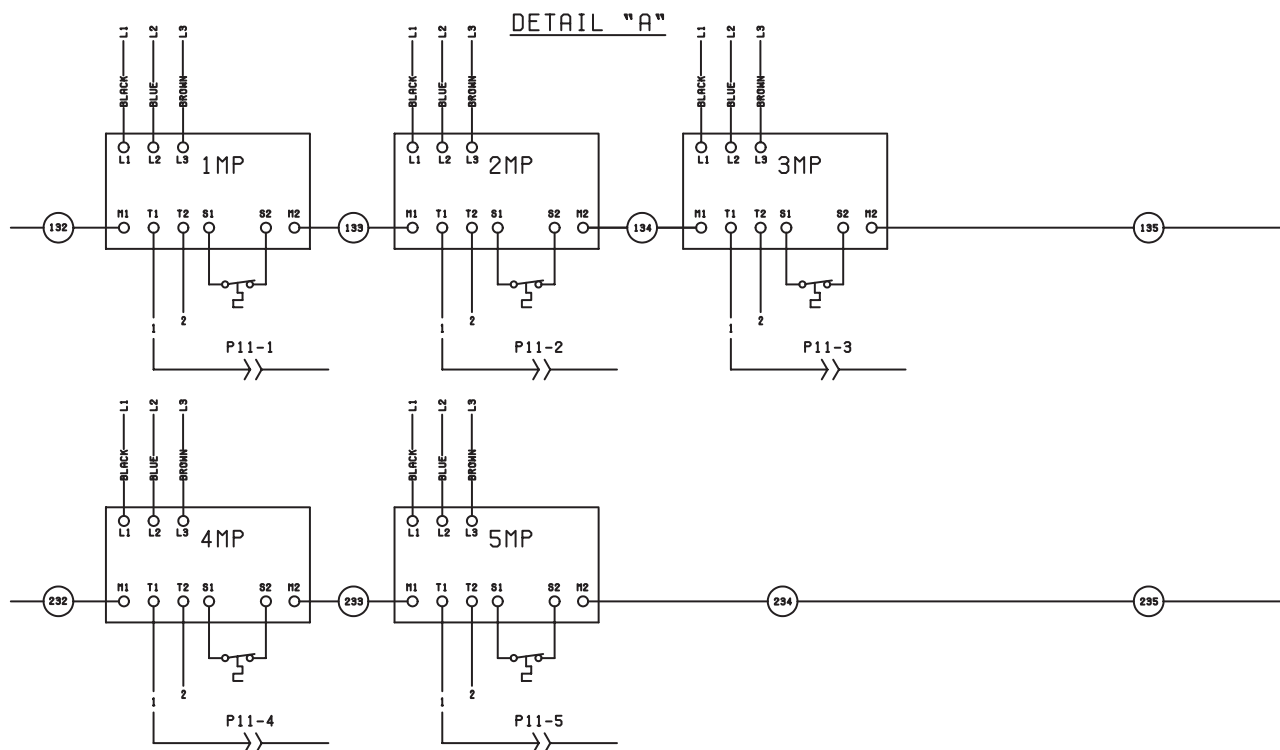
035-18151-102
REV. C

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 1) 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. 1MP THRU 6MP ARE CONTAINED IN THEIR RESPECTIVE COMPRESSOR JUNCTION BOXES.

LEGEND

- TS TRANSIENT VOLTAGE SUPPRESSION
 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



LD08838

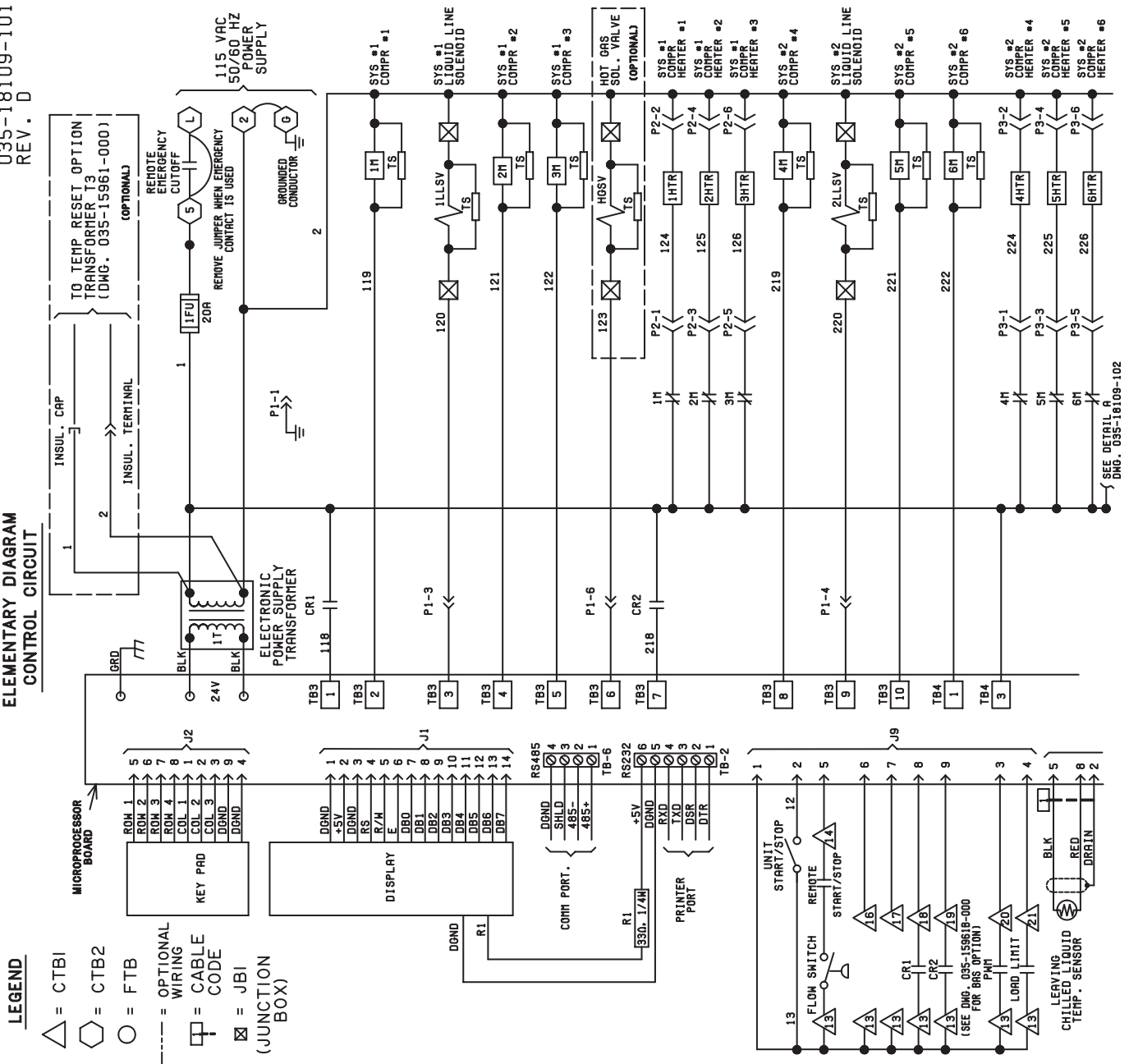
FIG. 29 – ELEMENTARY DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE– YCAL0104E_

This page intentionally left blank.

ELEMENTARY DIAGRAM
YCAL0114E_ – YCAL0124E_

035-18109-101
REV. D

ELEMENTARY DIAGRAM CONTROL CIRCUIT

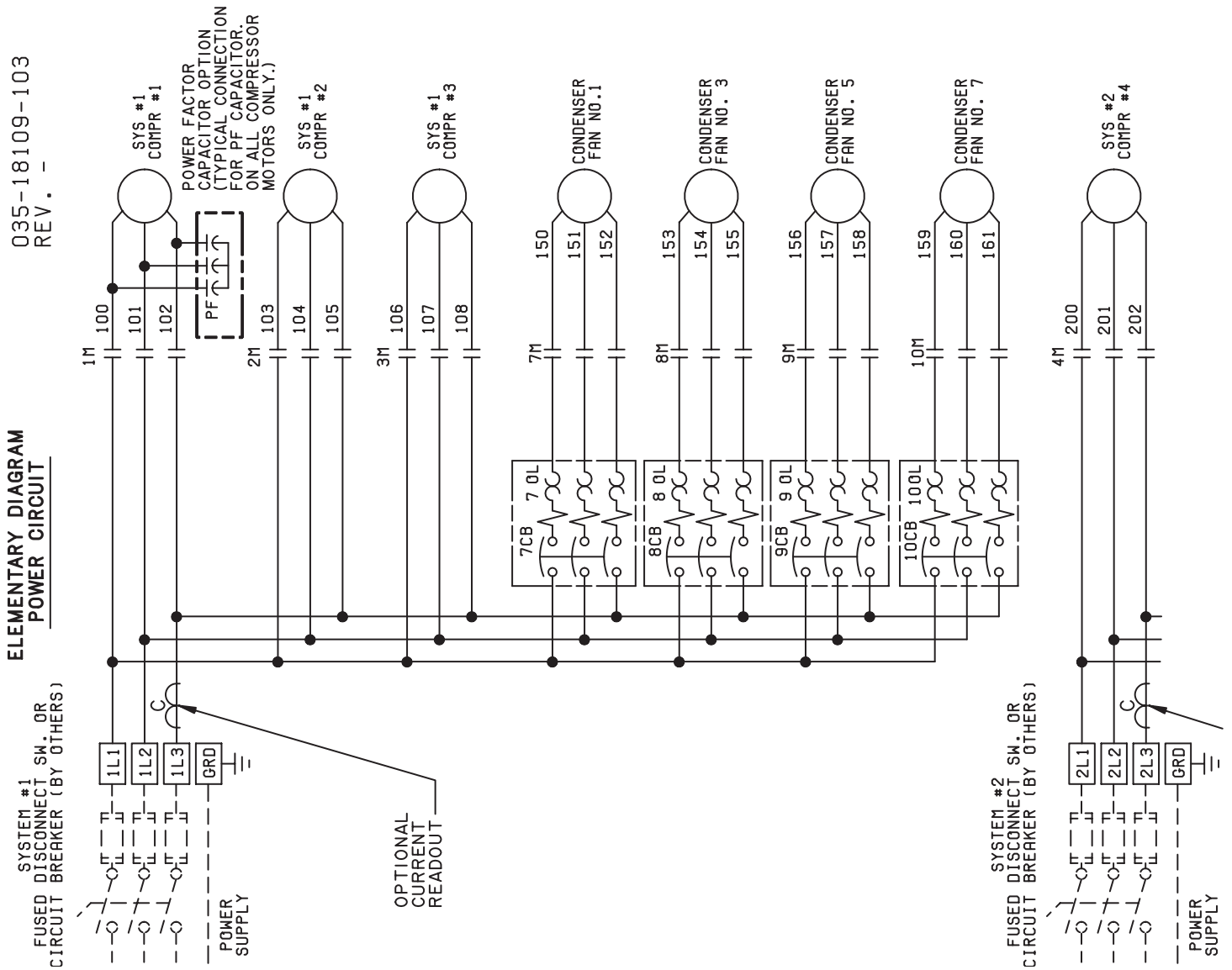


LD08843

FIG. 30 – ELEMENTARY DIAGRAM, CONTROL CIRCUIT – YCAL0114E_ - YCAL0124E

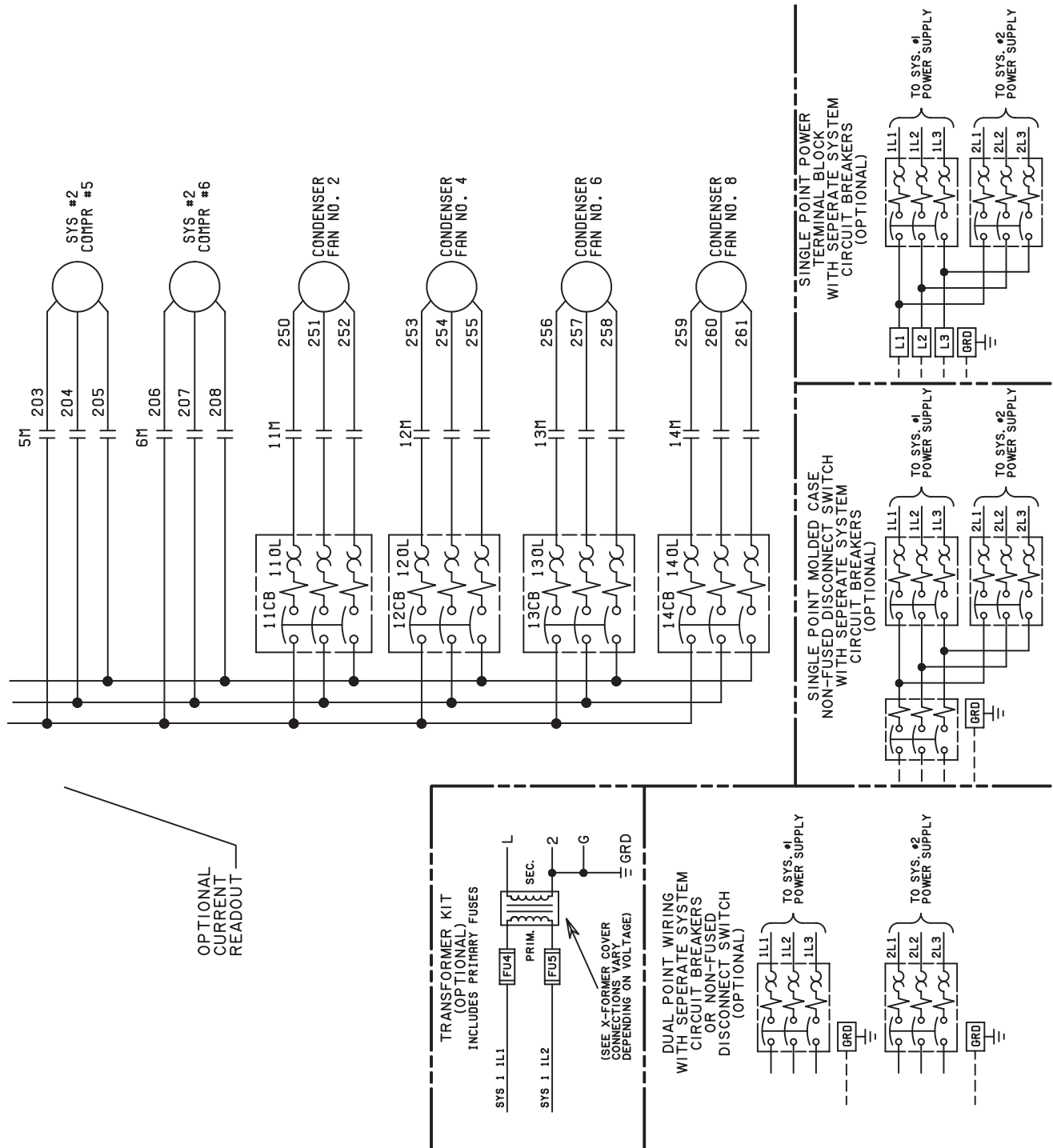


ELEMENTARY DIAGRAM **YCAL0114E_ - YCAL0124E_**

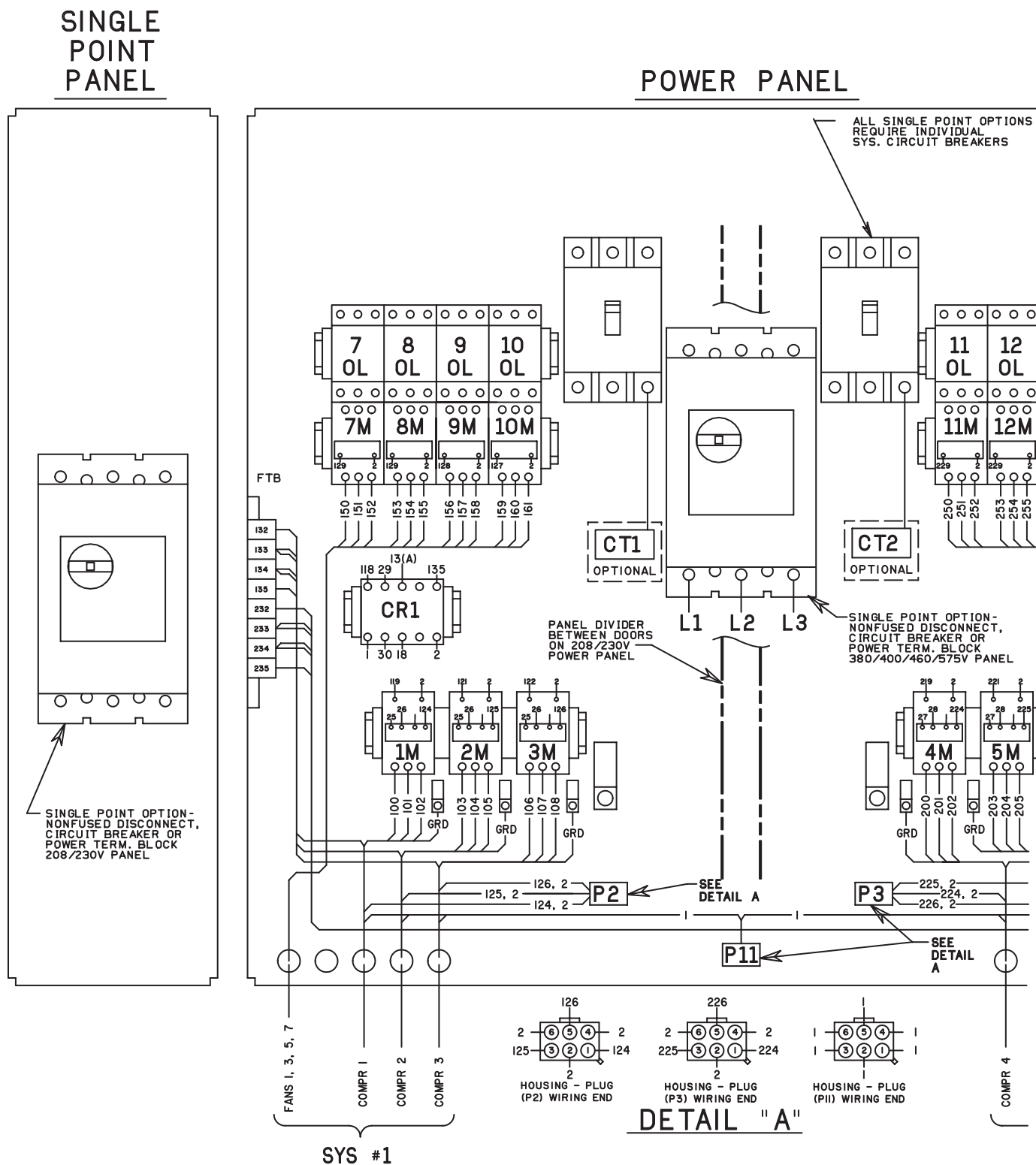


LD08846

FIG. 31 - ELEMENTARY DIAGRAM, POWER CIRCUIT - YCAL0114E_ - YCAL0124E_



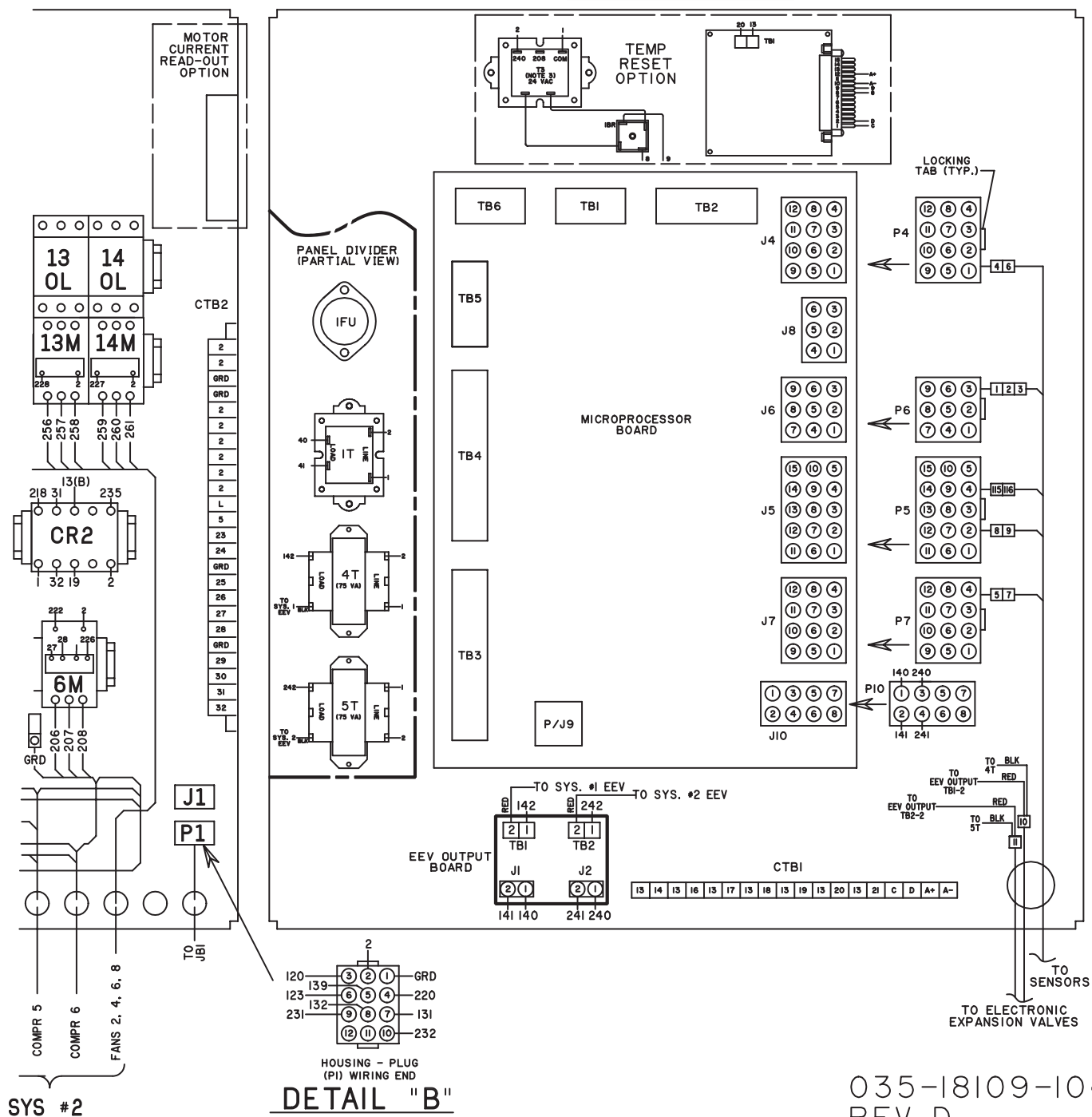
CONNECTION DIAGRAM
YCAL0114E – YCAL0124E



LD08848

FIG. 32 – CONNECTION DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0114E_ - YCAL0124E_

MICRO PANEL



035-18109-104
REV D

ELEMENTARY DIAGRAM YCAL0114E_ - YCAL0124E_

ELEMENTARY DIAGRAM MIDDLE MARKET HIGH PERFORMANCE STANDARD AND REMOTE EVAPORATOR UNITS

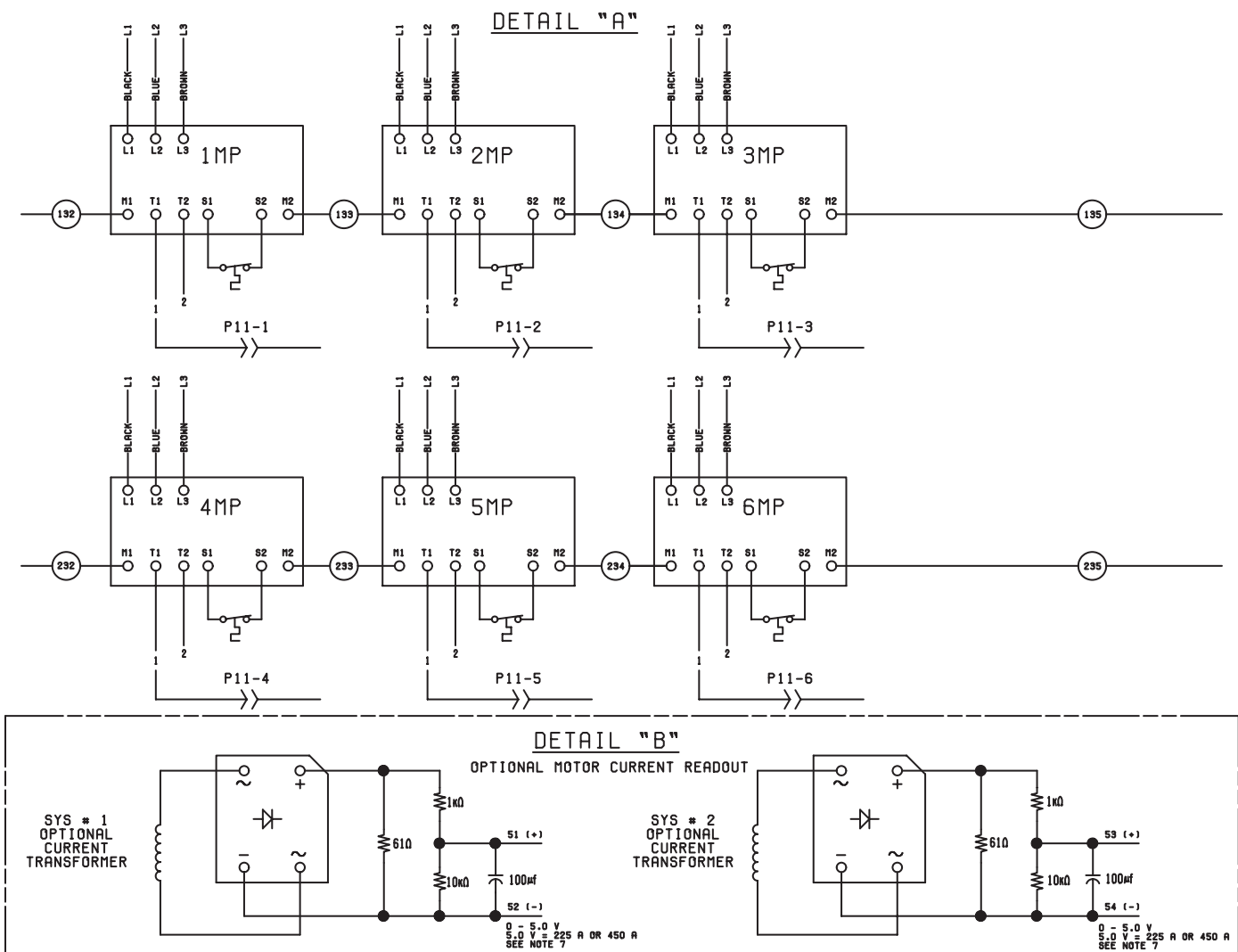
035-18109-102
REV. B

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).
3. WIRING SHALL NOT BE RUN IN THE SAME CONDUIT WITH ANY LINE VOLTAGE (CLASS 1) WIRING.
4. 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.
5. 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.
6. CONTACTS ARE RATED AT 115V, 100VA, RESISTIVE LOAD ONLY, AND MUST BE SUPPRESSED AT LOAD BY USER.
7. SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL WHEN OPTIONAL EQUIPMENT IS USED.
8. OPTIONAL CURRENT READOUT, 5V = 225A FOR 380, 400, 460 & 575V. 5V = 450A FOR 200 & 230V CHILLERS
9. IMP THRU 6MP ARE CONTAINED IN THEIR RESPECTIVE COMPRESSOR JUNCTION BOXES.

LEGEND

- TS TRANSIENT VOLTAGE SUPPRESSION
 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. 33 – ELEMENTARY DIAGRAM, MIDDLE MARKET HIGH PERFORMANCE – YCAL0114E_ - YCAL0124E_

NOTES

