



eco²
AIR COOLED SCREW LIQUID CHILLERS
MODELS YCAS STYLE 'F'

WIRING DIAGRAM

New Release

Form 201.18-W10 (701)



Better ecology,
Better economy.

MODELS YCAS0218 THROUGH YCAS0418
60 HZ



28971AR



200, 230, 380,
460, & 575 Models



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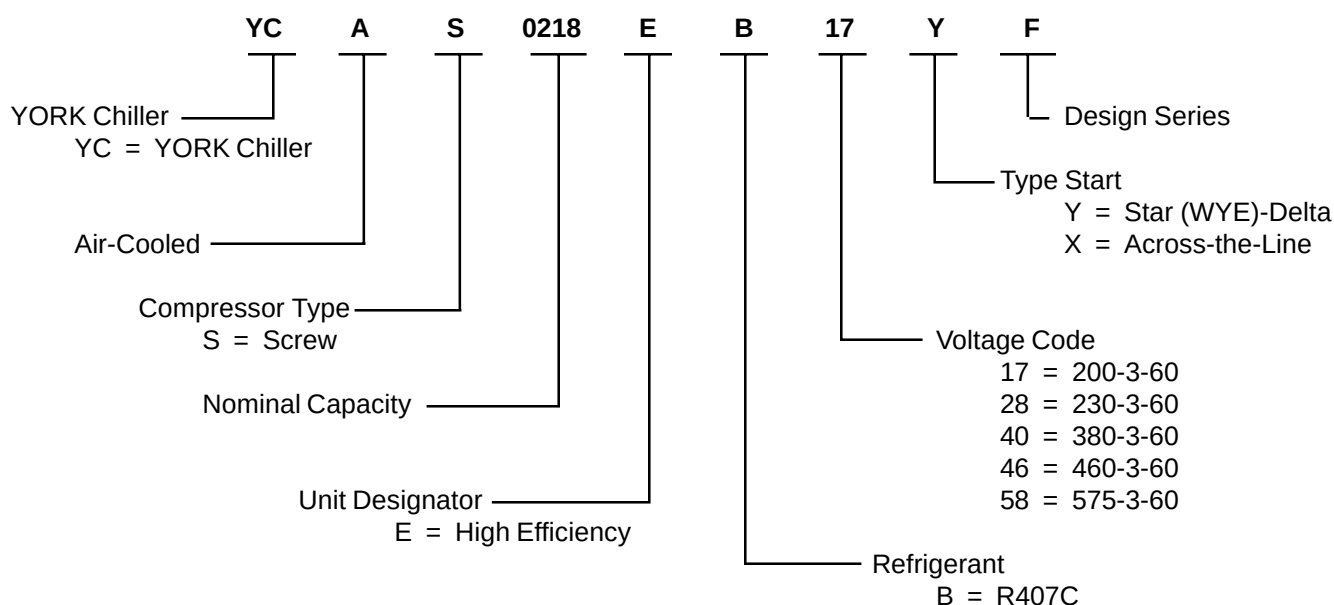
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NOMENCLATURE

The Model Number denotes the following characteristics of the unit:



WARNING

HIGH VOLTAGE
is used in the operation of this equipment
DEATH OR SERIOUS INJURY

may result if personnel fail to observe precautions.

Work on electronic equipment should not be undertaken unless the individual(s) has (have) been trained in the proper maintenance of the 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 special 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 DATA (60 Hz)

MULTIPLE POINT POWER SUPPLY CONNECTION – 3 & 4 COMPRESSOR UNIT

(Two Field Provided Power Supply Circuits To The Chiller. Field Connections to Factory Provided Terminal Block (Std) or Disconnects (Opt) in the Options Panel. Factory-wired Terminal Blocks or Individual System Circuit Breakers (Opt¹⁰) in each of the two Motor Control Centers.)

MODEL YCAS	VOLTS	SYSTEM #1 FIELD-SUPPLIED WIRING														
		FIELD PROVIDED POWER SUPPLY				FACTORY PROVIDED (LUGS) WIRE RANGE ⁷		COMPRESSOR #1			COMPRESSOR #3			FANS ^{11, 12}		
		MCA ¹	MIN NF DISC SW ^{2, 9}	OVER-CURRENT PROTECTION		STD. TERMINAL BLOCK	OPT. NF. DISC SW.	RLA	Y-D-LRA	XL-LRA	RLA	Y-D-LRA	XL-LRA	QTY	FLA (EA.)	LRA (EA.)
				MIN. ^{3, 5}	MAX. ^{4, 6}											
0218EB	380	326	400	350	400	2/0 - 500	(2) 3/0 - 250	121	285	900	121	285	900	8	5.1	21.0
	460	278	400	300	350	2/0 - 500	(2) 3/0 - 250	100	228	719	100	228	719	8	5.2	29.0
	575	220	250	250	250	2/0 - 500	#6 - 350	80	182	574	80	182	574	8	3.9	25.9
0248EB	380	441	600	500	600	(2) 1/0 - 300	(2) 250-500	121	285	900	213	343	1093	8	5.1	21.0
	460	373	400	450	500	2/0 - 500	(2) 3/0 - 250	100	228	719	176	280	893	8	5.2	29.0
	575	296	400	350	400	2/0 - 500	(2) 3/0 - 250	80	182	574	141	224	714	8	3.9	25.9
0268EB	380	426	600	500	500	(2) 1/0 - 300	(2) 250-500	165	343	1093	165	343	1093	8	5.1	21.0
	460	361	400	400	450	2/0 - 500	(2) 3/0 - 250	137	280	893	137	280	893	8	5.2	29.0
	575	285	400	350	350	2/0 - 500	(2) 3/0 - 250	109	224	714	109	224	714	8	3.9	25.9
0288EB	380	485	600	600	600	(2) 1/0 - 300	(2) 250-500	212	343	1093	166	343	1093	8	5.1	21.0
	460	410	600	450	500	2/0 - 500	(2) 250-500	176	280	893	137	280	893	8	5.2	29.0
	575	325	400	400	400	2/0 - 500	(2) 3/0 - 250	141	224	714	109	224	714	8	3.9	25.9
0308EB	380	473	600	600	600	(2) 1/0 - 300	(2) 250-500	195	343	1093	166	343	1093	9	5.1	21.0
	460	402	600	450	500	2/0 - 500	(2) 3/0 - 250	161	280	893	137	280	893	9	5.2	29.0
	575	318	400	350	400	2/0 - 500	(2) 3/0 - 250	129	224	714	109	224	714	9	3.9	25.9
0328EB	380	492	600	600	600	(2) 1/0 - 300	(2) 250-500	195	343	1093	184	343	1093	11	5.1	21.0
	460	417	600	450	500	(2) 1/0 - 300	(2) 250-500	161	280	893	152	280	893	11	5.2	29.0
	575	330	400	400	450	2/0 - 500	(2) 3/0 - 250	129	224	714	122	224	714	11	3.9	25.9
0358EB	380	427	600	500	500	(2) 1/0 - 300	(2) 250-500	166	343	1093	166	343	1093	8	5.1	21.0
	460	363	400	400	450	2/0 - 500	(2) 3/0 - 250	138	280	893	138	280	893	8	5.2	29.0
	575	285	400	350	350	2/0 - 500	(2) 3/0 - 250	109	224	714	109	224	714	8	3.9	25.9
0398EB	380	473	600	600	600	(2) 1/0 - 300	(2) 250-500	194	343	1093	166	343	1093	9	5.1	21.0
	460	403	600	450	500	2/0 - 500	(2) 3/0 - 250	162	280	893	138	280	893	9	5.2	29.0
	575	318	400	350	400	2/0 - 500	(2) 3/0 - 250	129	224	714	109	224	714	9	3.9	25.9
0418EB	380	526	600	600	700	(2) 2/0 - 500	(2) 250-500	196	343	1093	213	343	1093	9	5.1	21.0
	460	444	600	500	600	(2) 1/0 - 300	(2) 250-500	162	280	893	176	280	893	9	5.2	29.0
	575	353	400	400	450	2/0 - 500	(2) 3/0 - 250	129	224	714	141	224	714	9	3.9	25.9

See page 8 for Electrical Data footnotes.

MODEL YCAS	VOLTS	SYSTEM #2 FIELD-SUPPLIED WIRING														
		FIELD PROVIDED POWER SUPPLY				FACTORY PROVIDED (LUGS) WIRE RANGE ⁷		COMPRESSOR #2			COMPRESSOR #4			FANS ^{11, 12}		
		MCA ¹	MIN NF DISC SW ^{2, 9}	OVER-CURRENT PROTECTION		STD. TERMINAL BLOCK	OPT. NF. DISC SW.	RLA	Y-D-LRA	XL-LRA	RLA	Y-D-LRA	XL-LRA	QTY	FLA (EA.)	LRA (EA.)
				MIN. ^{3, 5}	MAX. ^{4, 6}											
0218EB	380	171	200	225	250	# 2 - 4/0	#4 - 300	121	285	900	—	—	—	4	5.1	21.0
	460	146	150	175	225	# 2 - 4/0	# 2 - 4/0	100	228	719	—	—	—	4	5.2	29.0
	575	115	150	150	175	# 2 - 4/0	# 2 - 4/0	80	182	574	—	—	—	4	3.9	25.9
0248EB	380	171	200	225	250	1/0 - 300	#6 - 350	121	285	900	—	—	—	4	5.1	21.0
	460	146	150	175	225	# 2 - 4/0	# 2 - 4/0	100	228	719	—	—	—	4	5.2	29.0
	575	115	150	150	175	# 2 - 4/0	# 2 - 4/0	80	182	574	—	—	—	4	3.9	25.9
0268EB	380	227	250	300	350	1/0 - 300	#6 - 350	165	343	1093	—	—	—	4	5.1	21.0
	460	192	200	250	300	# 2 - 4/0	#4 - 300	137	280	893	—	—	—	4	5.2	29.0
	575	152	150	200	250	# 2 - 4/0	# 2 - 4/0	109	224	714	—	—	—	4	3.9	25.9
0288EB	380	227	250	300	350	1/0 - 300	#6 - 350	166	343	1093	—	—	—	4	5.1	21.0
	460	193	200	250	300	# 2 - 4/0	#4 - 300	137	280	893	—	—	—	4	5.2	29.0
	575	152	150	200	250	# 2 - 4/0	# 2 - 4/0	109	224	714	—	—	—	4	3.9	25.9
0308EB	380	264	400	350	450	2/0 - 500	(2) 3/0 - 250	195	343	1093	—	—	—	5	5.1	21.0
	460	222	250	300	350	1/0 - 300	#4 - 300	161	280	893	—	—	—	5	5.2	29.0
	575	177	200	225	300	# 2 - 4/0	#6 - 350	129	224	714	—	—	—	5	3.9	25.9
0328EB	380	264	400	350	450	2/0 - 500	(2) 3/0 - 250	195	343	1093	—	—	—	5	5.1	21.0
	460	222	250	300	350	1/0 - 300	#4 - 300	161	280	893	—	—	—	5	5.2	29.0
	575	177	200	225	300	# 2 - 4/0	#6 - 350	129	224	714	—	—	—	5	3.9	25.9
0358EB	380	414	600	500	500	(2) 1/0 - 300	(2) 250-500	166	343	1093	166	343	1,093	8	5.1	21.0
	460	352	400	400	450	2/0 - 500	(2) 3/0 - 250	138	280	893	138	280	893	8	5.2	29.0
	575	277	400	350	350	2/0 - 500	(2) 3/0 - 250	109	224	714	109	224	714	8	3.9	25.9
0398EB	380	460	600	600	600	(2) 1/0 - 300	(2) 250-500	194	343	1093	166	343	1,093	9	5.1	21.0
	460	392	600	450	500	2/0 - 500	(2) 3/0 - 250	162	280	893	138	280	893	9	5.2	29.0
	575	309	400	350	400	2/0 - 500	(2) 3/0 - 250	129	224	714	109	224	714	9	3.9	25.9
0418EB	380	513	600	600	700	(2) 2/0 - 500	(2) 250-500	196	343	1093	213	343	1,093	9	5.1	21.0
	460	434	600	500	600	(2) 1/0 - 300	(2) 250-500	162	280	893	176	280	893	9	5.2	29.0
	575	344	400	400	450	2/0 - 500	(2) 3/0 - 250	129	224	714	141	224	714	9	3.9	25.9

ELECTRICAL DATA (60 Hz)

OPTIONAL SINGLE-POINT POWER SUPPLY CONNECTION WITH INDIVIDUAL SYSTEM CIRCUIT BREAKERS – 3 & 4 COMPRESSOR UNITS

(One Field Provided Power Supply Circuit to the chiller. Field connections to Factory Provided Terminal Block (standard) or Non-Fused Disconnect (option) in Options Panel. Individual System Circuit Breakers in each Motor Control Center)

MODEL YCAS	VOLTS	SYSTEM #1 FIELD-SUPPLIED WIRING														
		FIELD PROVIDED POWER SUPPLY				FACTORY PROVIDED (LUGS) WIRE RANGE ⁷		COMPRESSOR #1			COMPRESSOR #3			FANS ^{11, 12}		
		MCA ¹	MIN NF DISC SW ^{2, 9}	OVER-CURRENT PROTECTION		STD. TERMINAL BLOCK	OPT. NF. DISC SW.	RLA	Y-D-LRA	XL-LRA	RLA	Y-D-LRA	XL-LRA	QTY	FLA (EA.)	LRA (EA.)
				MIN. ^{3, 5}	MAX. ^{4, 6}											
0218EB	380	467	600	500	600	(2) 1/0 - 300	(2) 250-500	121	285	900	121	285	900	8	5.1	21.0
	460	399	600	450	500	(2) 1/0 - 300	(2) 250-500	100	228	719	100	228	719	8	5.2	29.0
	575	315	400	350	400	(2) # 2 - 4/0	(2) 3/0 - 250	80	182	574	80	182	574	8	3.9	25.9
0248EB	380	582	600	700	800	(2) 2/0 - 500	(2) 250-500	121	285	900	213	343	1093	8	5.1	21.0
	460	493	600	600	700	(2) 1/0 - 300	(2) 250-500	100	228	719	176	280	893	8	5.2	29.0
	575	391	600	450	600	(2) # 2 - 4/0	(2) 3/0 - 250	80	182	574	141	224	714	8	3.9	25.9
0268EB	380	612	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	165	343	1093	165	343	1093	8	5.1	21.0
	460	519	600	600	700	(2) 2/0 - 500	(2) 250-500	137	280	893	137	280	893	8	5.2	29.0
	575	410	600	450	500	(2) 1/0 - 300	(2) 250-500	109	224	714	109	224	714	8	3.9	25.9
0288EB	380	671	800	800	1000	(2) 2/0 - 500	(3) 2/0 - 400	212	343	1093	166	343	1093	8	5.1	21.0
	460	568	600	700	800	(2) 2/0 - 500	(2) 250-500	176	280	893	137	280	893	8	5.2	29.0
	575	450	600	500	600	(2) 1/0 - 300	(2) 250-500	141	224	714	109	224	714	8	3.9	25.9
0308EB	380	689	800	800	1000	(3) 1/0 - 300	(3) 2/0 - 400	195	343	1093	166	343	1093	9	5.1	21.0
	460	584	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	161	280	893	137	280	893	9	5.2	29.0
	575	462	600	500	600	(2) 1/0 - 300	(2) 250-500	129	224	714	109	224	714	9	3.9	25.9
0328EB	380	707	800	800	1000	(3) 1/0 - 300	(3) 2/0 - 400	195	343	1093	184	343	1093	11	5.1	21.0
	460	599	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	161	280	893	152	280	893	11	5.2	29.0
	575	475	600	500	600	(2) 1/0 - 300	(2) 250-500	129	224	714	122	224	714	11	3.9	25.9
0358EB	380	799	1000	1000	1000	(3) 2/0 - 500	(4) 250-500	166	343	1093	166	343	1093	8	5.1	21.0
	460	680	800	800	1000	(2) 2/0 - 500	(3) 2/0 - 400	138	280	893	138	280	893	8	5.2	29.0
	575	535	600	600	700	(2) 2/0 - 500	(3) 2/0 - 400	109	224	714	109	224	714	8	3.9	25.9
0398EB	380	884	1000	1000	1200	(3) 2/0 - 500	(4) 250-500	194	343	1093	166	343	1093	9	5.1	21.0
	460	754	1000	800	1000	(3) 1/0 - 300	(3) 2/0 - 400	162	280	893	138	280	893	9	5.2	29.0
	575	594	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	129	224	714	109	224	714	9	3.9	25.9
0418EB	380	985	1000	1200	1200	(3) 2/0 - 500	(4) 250-500	196	343	1093	213	343	1093	9	5.1	21.0
	460	834	1000	1000	1000	(3) 2/0 - 500	(4) 250-500	162	280	893	176	280	893	9	5.2	29.0
	575	661	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	129	224	714	141	224	714	9	3.9	25.9

See page 8 for Electrical Data footnotes.

MODEL YCAS	VOLTS	SYSTEM #2 FIELD-SUPPLIED WIRING														
		FIELD PROVIDED POWER SUPPLY				FACTORY PROVIDED (LUGS) WIRE RANGE ⁷		COMPRESSOR #2			COMPRESSOR #4			FANS ^{11, 12}		
		MCA ¹	MIN NF DISC SW ^{2, 9}	OVER-CURRENT PROTECTION		STD. TERMINAL BLOCK	OPT. NF. DISC SW.	RLA	Y-D-LRA	XL-LRA	RLA	Y-D-LRA	XL-LRA	QTY	FLA (EA.)	LRA (EA.)
				MIN. ^{3, 5}	MAX. ^{4, 6}											
0218EB	380	467	600	500	600	(2) 1/0 - 300	(2) 250-500	121	285	900	-	-	-	4	5.1	21.0
	460	399	600	450	500	(2) 1/0 - 300	(2) 250-500	100	228	719	-	-	-	4	5.2	29.0
	575	315	400	350	400	(2) # 2 - 4/0	(2) 3/0 - 250	80	182	574	-	-	-	4	3.9	25.9
0248EB	380	582	600	700	800	(2) 2/0 - 500	(2) 250-500	121	285	900	-	-	-	4	5.1	21.0
	460	493	600	600	700	(2) 1/0 - 300	(2) 250-500	100	228	719	-	-	-	4	5.2	29.0
	575	391	600	450	600	(2) # 2 - 4/0	(2) 3/0 - 250	80	182	574	-	-	-	4	3.9	25.9
0268EB	380	612	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	165	343	1093	-	-	-	4	5.1	21.0
	460	519	600	600	700	(2) 2/0 - 500	(2) 250-500	137	280	893	-	-	-	4	5.2	29.0
	575	410	600	450	500	(2) 1/0 - 300	(2) 250-500	109	224	714	-	-	-	4	3.9	25.9
0288EB	380	671	800	800	1000	(2) 2/0 - 500	(3) 2/0 - 400	212	343	1093	-	-	-	4	5.1	21.0
	460	568	600	700	800	(2) 2/0 - 500	(2) 250-500	176	280	893	-	-	-	4	5.2	29.0
	575	450	600	500	600	(2) 1/0 - 300	(2) 250-500	141	224	714	-	-	-	4	3.9	25.9
0308EB	380	689	800	800	1000	(3) 1/0 - 300	(3) 2/0 - 400	195	343	1093	-	-	-	5	5.1	21.0
	460	584	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	161	280	893	-	-	-	5	5.2	29.0
	575	462	600	500	600	(2) 1/0 - 300	(2) 250-500	129	224	714	-	-	-	5	3.9	25.9
0328EB	380	707	800	800	1000	(3) 1/0 - 300	(3) 2/0 - 400	195	343	1093	-	-	-	5	5.1	21.0
	460	599	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	161	280	893	-	-	-	5	5.2	29.0
	575	475	600	500	600	(2) 1/0 - 300	(2) 250-500	129	224	714	-	-	-	5	3.9	25.9
0358EB	380	799	1000	1000	1000	(3) 2/0 - 500	(4) 250-500	166	343	1093	166	343	1093	8	5.1	21.0
	460	680	800	800	1000	(2) 2/0 - 500	(3) 2/0 - 400	138	280	893	138	280	893	8	5.2	29.0
	575	535	600	600	700	(2) 2/0 - 500	(3) 2/0 - 400	109	224	714	109	224	714	8	3.9	25.9
0398EB	380	884	1000	1000	1200	(3) 2/0 - 500	(4) 250-500	194	343	1093	166	343	1093	9	5.1	21.0
	460	754	1000	800	1000	(3) 1/0 - 300	(3) 2/0 - 400	162	280	893	138	280	893	9	5.2	29.0
	575	594	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	129	224	714	109	224	714	9	3.9	25.9
0418EB	380	985	1000	1200	1200	(3) 2/0 - 500	(4) 250-500	196	343	1093	213	343	1093	9	5.1	21.0
	460	834	1000	1000	1000	(3) 2/0 - 500	(4) 250-500	162	280	893	176	280	893	9	5.2	29.0
	575	661	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400	129	224	714	141	224	714	9	3.9	25.9

ELECTRICAL DATA

NOTES (pages 4-7)

1. Minimum circuit ampacity (MCA) is based on 125% of the rated load amps for the largest motor plus 100% of the rated load amps for all other loads included in the circuit, per N.E.C. Article 430-24. If a Factory-mounted Control Transformer is provided, add the following to the system #1 MCA values in the YCAS tables: -17, add 15 amps; -28, add 12 amps; -40, add 7 amps; -46, add 6 amps; -58, add 5 amps.
2. The recommended disconnect switch is based on a minimum of 115% of the summation rated load amps of all the loads included in the circuit, per N.E.C. 440 - 12A1.
3. Minimum recommended fuse size is based on 150% of the largest motor RLA plus 100% of the remaining RLAs. Minimum fuse rating = $(1.5 \times \text{largest compressor RLA}) + \text{other compressor RLAs} + (\# \text{ fans} \times \text{each fan motor FLA})$.
4. Maximum dual element fuse size is based on 225% maximum plus 100% of the rated load amps for all other loads included in the circuit, per N.E.C. 440-22. Maximum fuse rating = $(2.25 \times \text{largest compressor RLA}) + \text{other compressor RLAs} + (\# \text{ fans} \times \text{each fan motor FLA})$.
5. Minimum recommended circuit breaker is 150% maximum plus 100% of rated load amps included in the circuit. Minimum circuit breaker rating = $(1.5 \times \text{largest compressor RLA}) + \text{other compressor RLAs} + (\# \text{ fans} \times \text{each fan motor FLA})$.
6. Maximum circuit breaker is based on 225% maximum plus 100% of the rated load amps for all loads included in the circuit, per circuit, per U.L. 1995 Fig. 36.2. Maximum circuit breaker rating = $(2.25 \times \text{largest compressor RLA}) + \text{other compressor RLAs} + (\# \text{ fans} \times \text{each fan motor FLA})$.
7. The Incoming Wire Range is the minimum and maximum wire size that can be accommodated by unit wiring lugs. The (1), (2), or (3) indicate the number of termination points or lugs which are available per phase. Actual wire size and number of wires per phase must be determined based on ampacity and job requirements using N.E.C. wire sizing information. The above recommendations are based on the National Electrical Code and using **copper connectors** only. Field wiring must also comply with local codes.
8. A ground lug is provided for each compressor system to accommodate field grounding conductor per N.E.C. Article 250-54. A control circuit grounding lug is also supplied.
9. The field supplied disconnect is a "Disconnecting Means" as defined in N.E.C. 100.B, and is intended for isolating the unit from the available power supply to perform maintenance and troubleshooting. This disconnect is not intended to be a Load Break Device.
10. Two-compressor machines with single-point power connection, and equipped with Star-Delta compressor motor start must also include Factory provided circuit breakers in each motor control center.
11. Consult factory for Electrical Data on units equipped with "High Static Fan" option. High Static Fans are 3kW each.
12. FLA for "Low Noise Fan" motors: 200V = 8.0A; 230V = 7.8A; 380V = 4.4A; 460V = 3.6A; 575V = 2.9A.
13. Group Rated Breaker must be HACR type for cU.L. machines.

LEGEND

ACR-LINE	ACROSS THE LINE START
C.B.	CIRCUIT BREAKER
D.E.	DUAL ELEMENT FUSE
DISC SW	DISCONNECT SWITCH
FACT 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	RUNNING LOAD AMPS
S.P. WIRE	SINGLE-POINT WIRING
Y-Δ	WYE-DELTA START
X-LRA	ACROSS-THE-LINE INRUSH LOCKED ROTOR AMPS
Y-LRA	WYE-DELTA INRUSH LOCKED ROTOR AMPS

VOLTAGE CODE

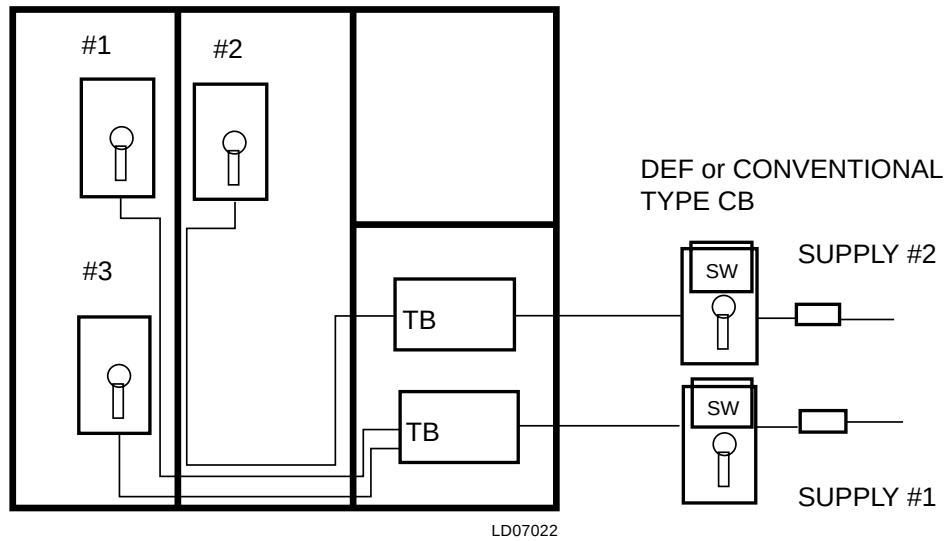
-17	= 200-3-60
-28	= 230-3-60
-40	= 380-3-60
-46	= 460-3-60
-58	= 575-3-60

CONTROL POWER SUPPLY (UNITS WITHOUT STANDARD CONTROL CIRCUIT TRANSFORMER)

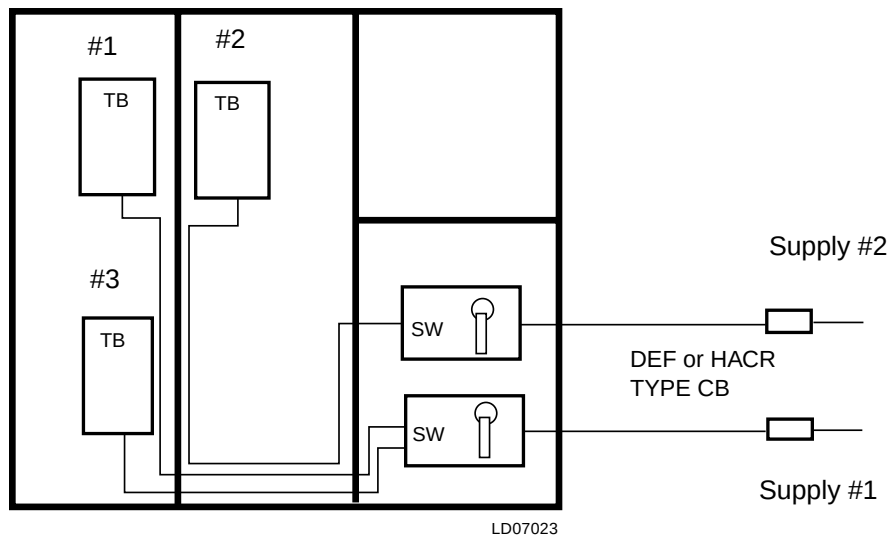
NO. OF COMPRESSORS	CONTROL POWER SUPPLY	MCA (MAX LOAD CURRENT)	MAX DUAL ELEMENT FUSE SIZE	NON-FUSED DISCONNECT SWITCH SIZE
(Non-CE 50/60Hz)	115V-1Ø	30A	30A	30A
(CE 50Hz)	115V-1Ø	25A	30A	30A

3 COMPRESSOR CHILLERS POWER WIRING POSSIBILITIES

MULTIPLE POINT WITH SEPARATE SYSTEM CIRCUIT BREAKERS

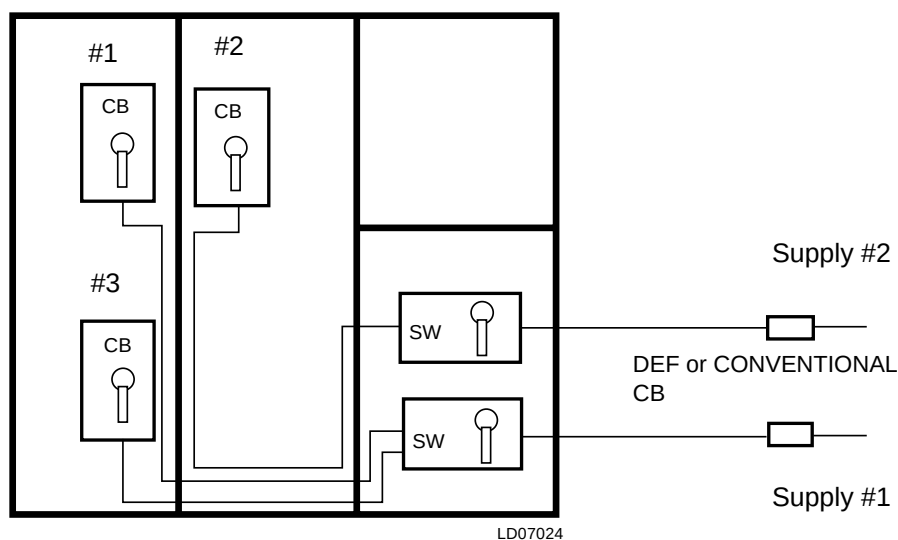


MULTIPLE POINT NON-FUSED DISCONNECTS WITH SEPARATE SYSTEM TERMINAL BLOCKS (SUITABLE FOR ACROSS-THE-LINE START ONLY)

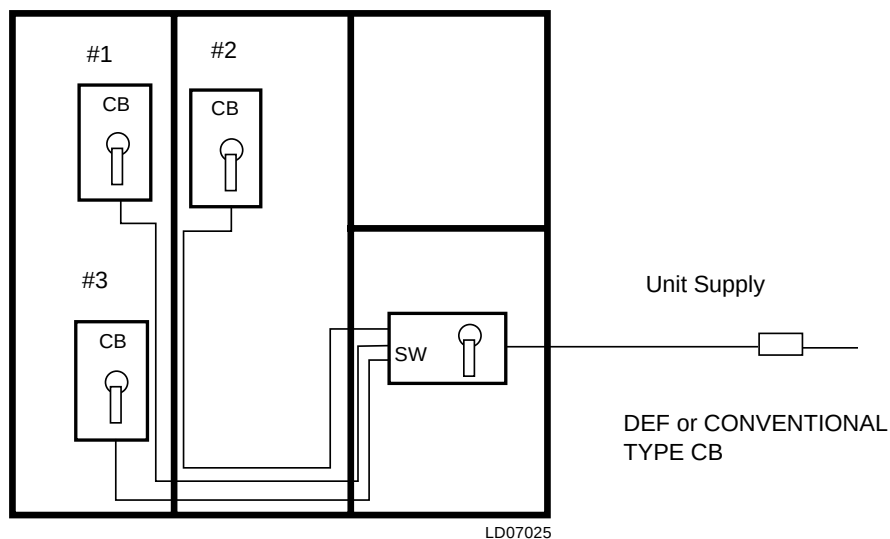


3 COMPRESSOR CHILLERS POWER WIRING POSSIBILITIES

MULTIPLE POINT NON-FUSED DISCONNECTS WITH SEPARATE SYSTEM CIRCUIT BREAKERS

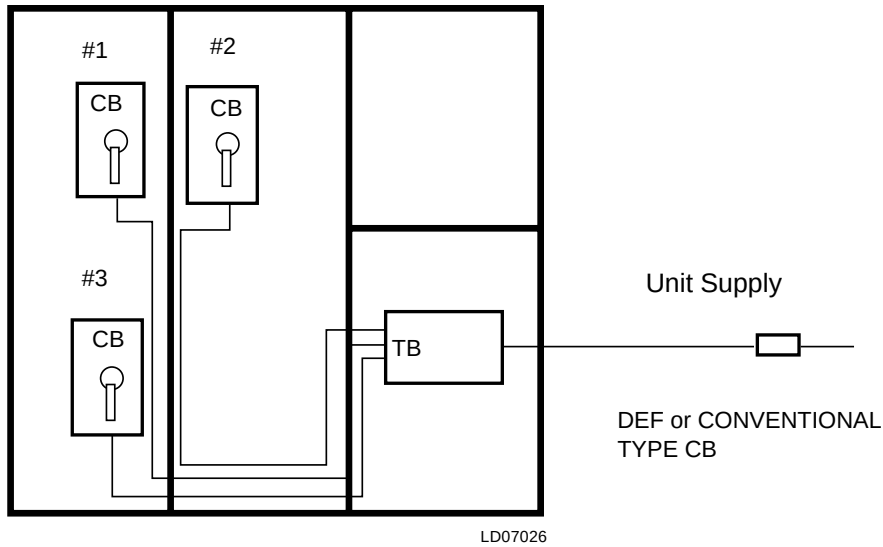


SINGLE-POINT WITH NON-FUSED DISCONNECT SWITCH & SYSTEM CIRCUIT BREAKERS

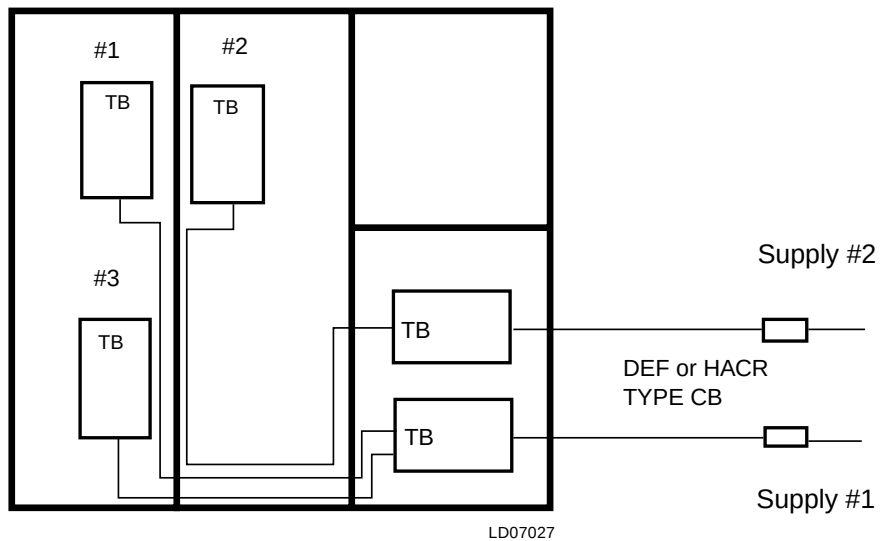


3 COMPRESSOR CHILLERS POWER WIRING POSSIBILITIES

SINGLE-POINT WITH SEPARATE SYSTEM CIRCUIT BREAKERS

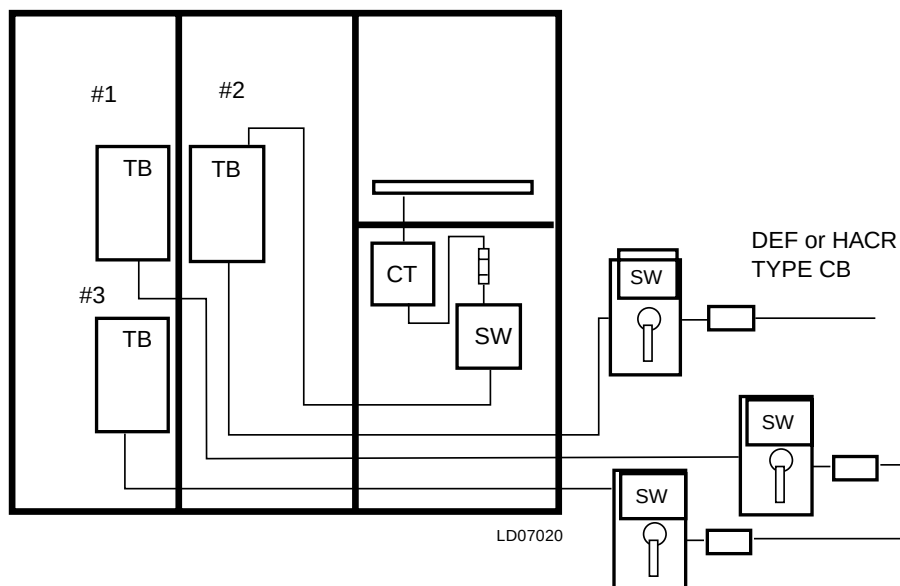


MULTIPLE POINT WITH SEPARATE SYSTEM TERMINAL BLOCKS (SUITABLE FOR ACROSS-THE-LINE START ONLY)

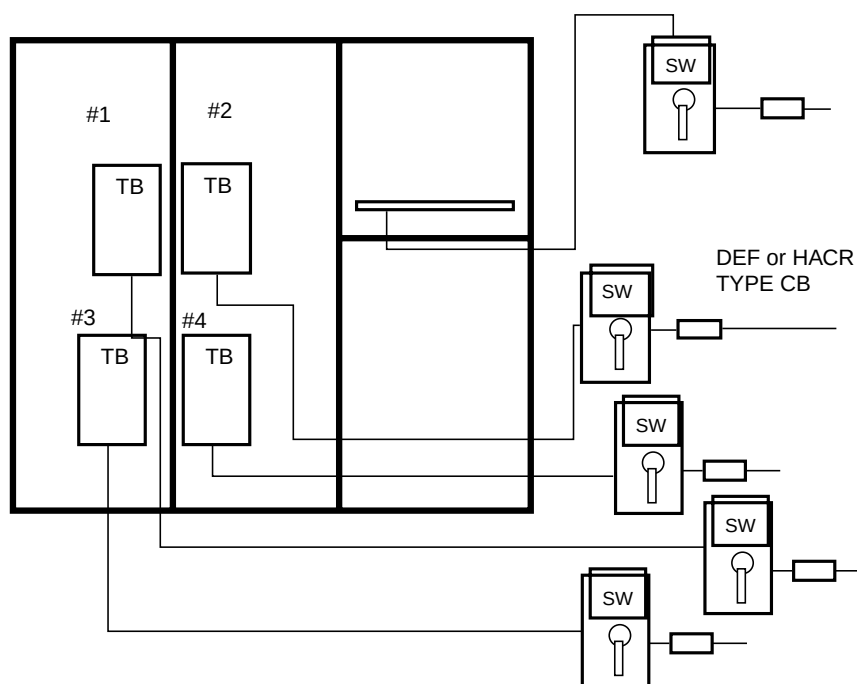


POWER WIRING POSSIBILITIES

CONTROL (120-1-60) SUPPLY VIA STANDARD CONTROL TRANSFORMER

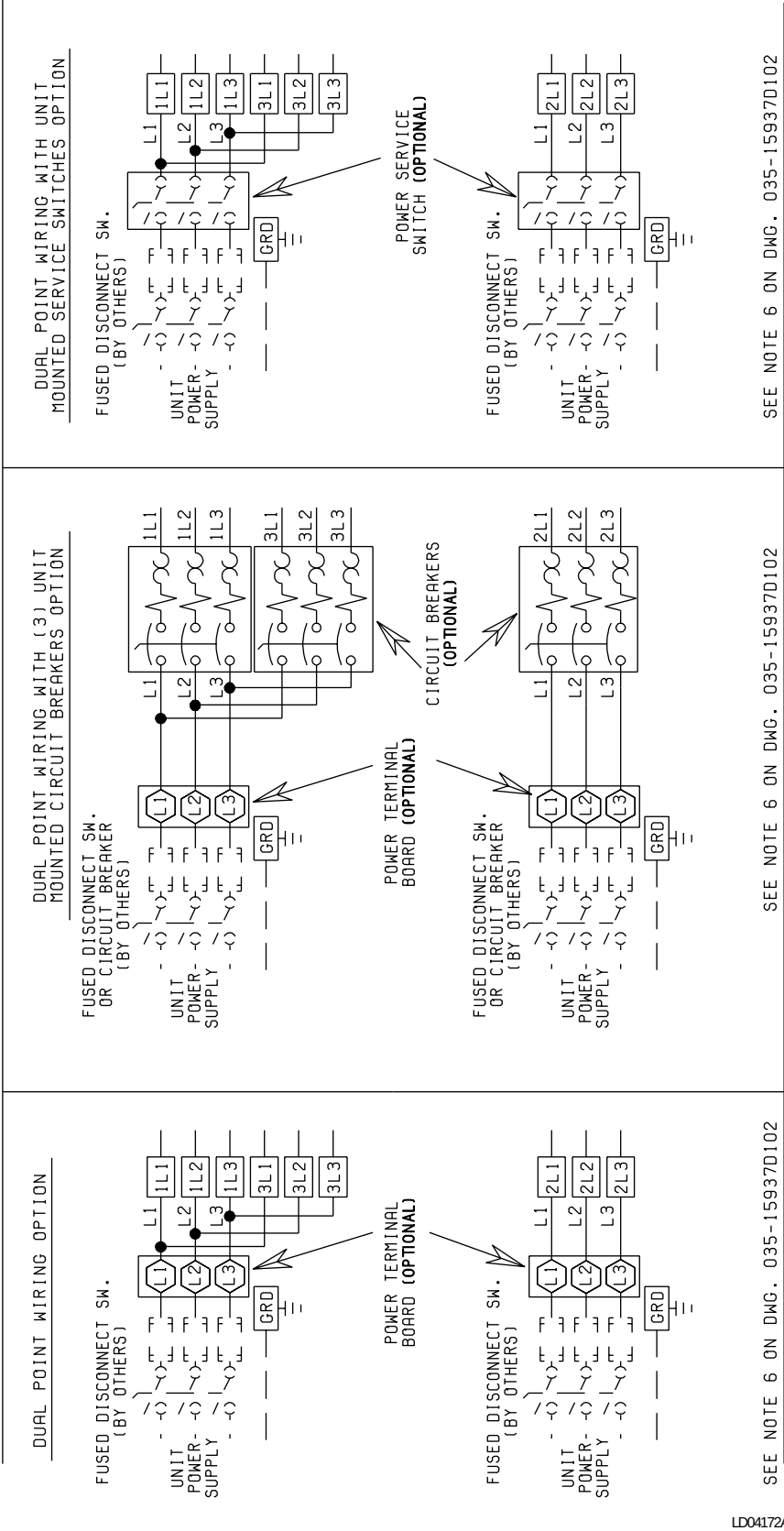


CONTROL (120-1-60) SUPPLY WITHOUT STANDARD CONTROL TRANSFORMER



LD07021

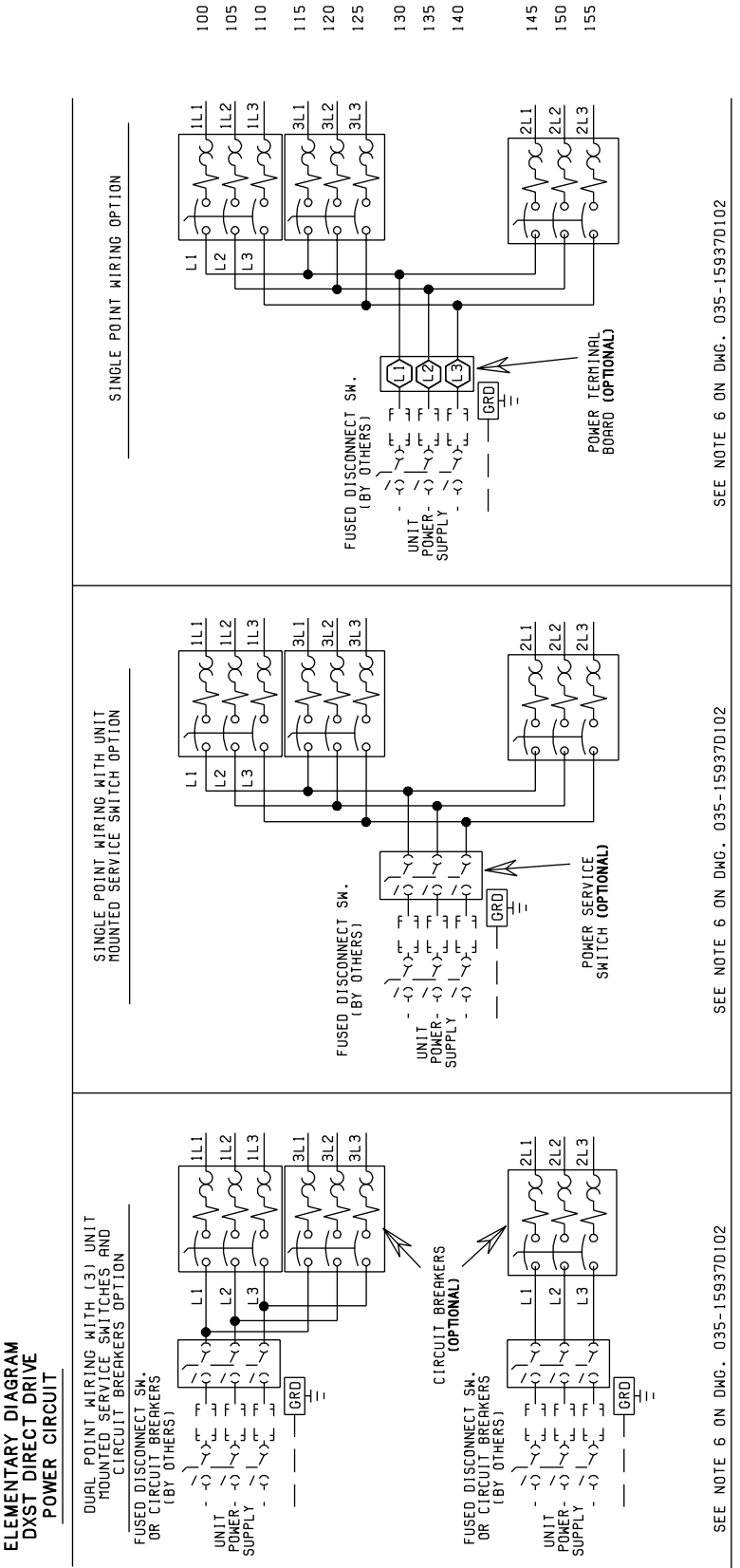
ELEMENTARY DIAGRAM



035-15937E103
REV. NONE

FIG. 1 – ELEMENTARY DIAGRAM

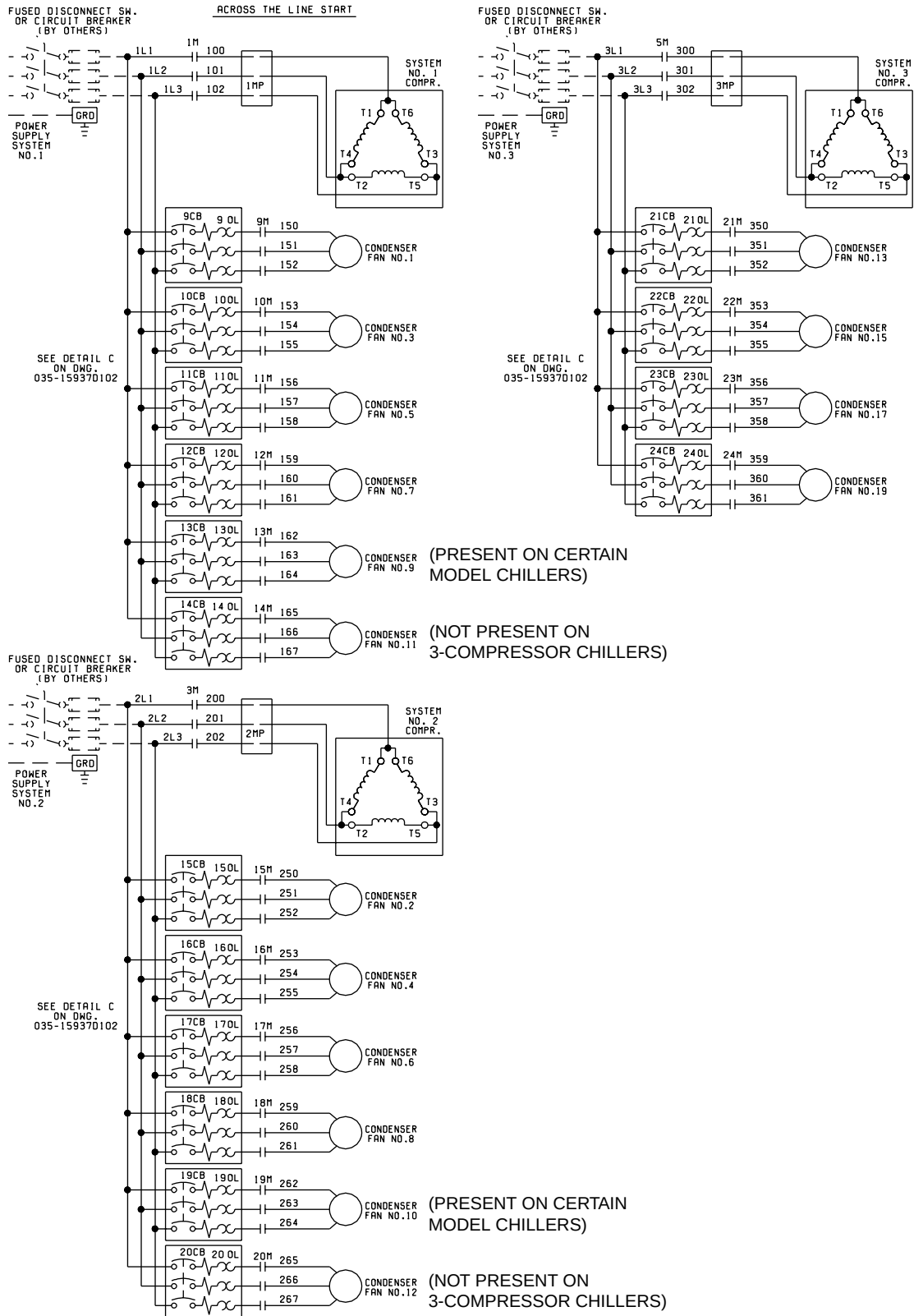
ELEMENTARY DIAGRAM



LD04172B

FIG. 2 – ELEMENTARY DIAGRAM
YORK INTERNATIONAL

STANDARD 3 COMPRESSOR POWER SUPPLIES ACROSS-THE-LINE START



LD04173

FIG. 3 – STANDARD 3 COMPRESSOR POWER SUPPLY - ACROSS-THE-LINE START

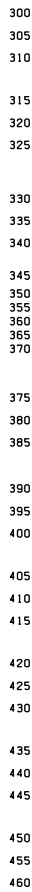
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YORK INTERNATIONAL

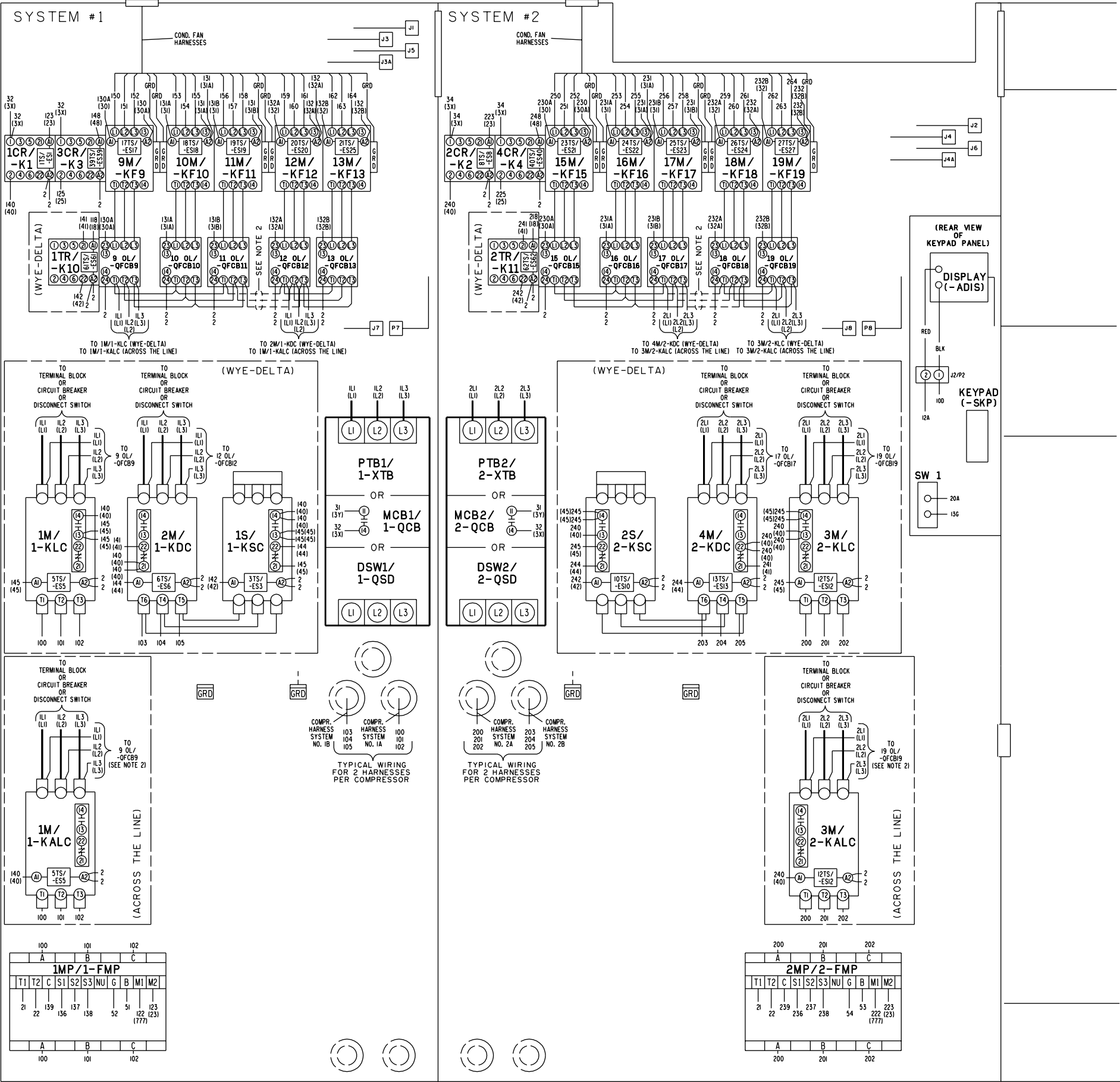
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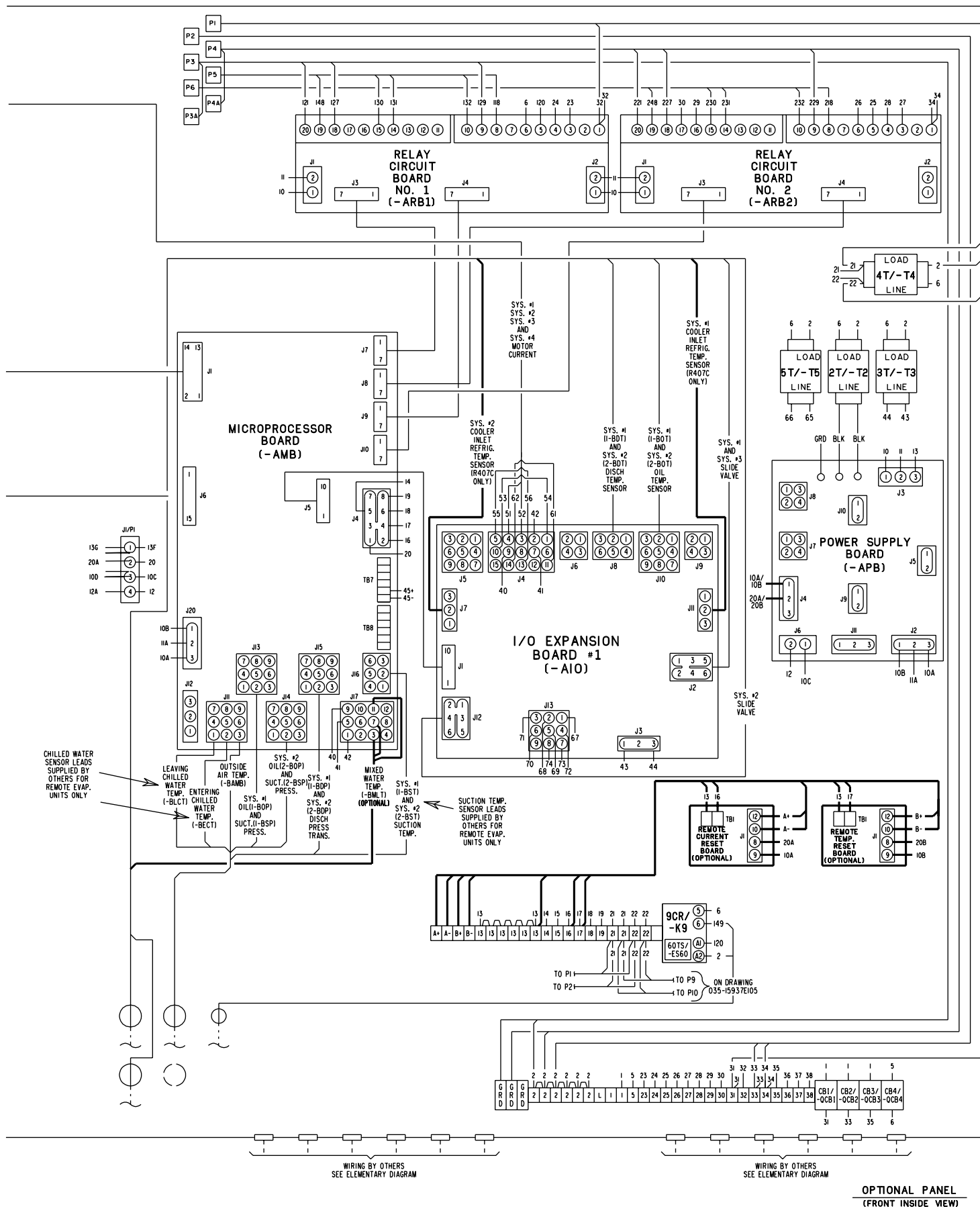
18



CONNECTION DIAGRAM



Box Information continued on page 22



CONNECTION DIAGRAM

Box Information continued from page 20

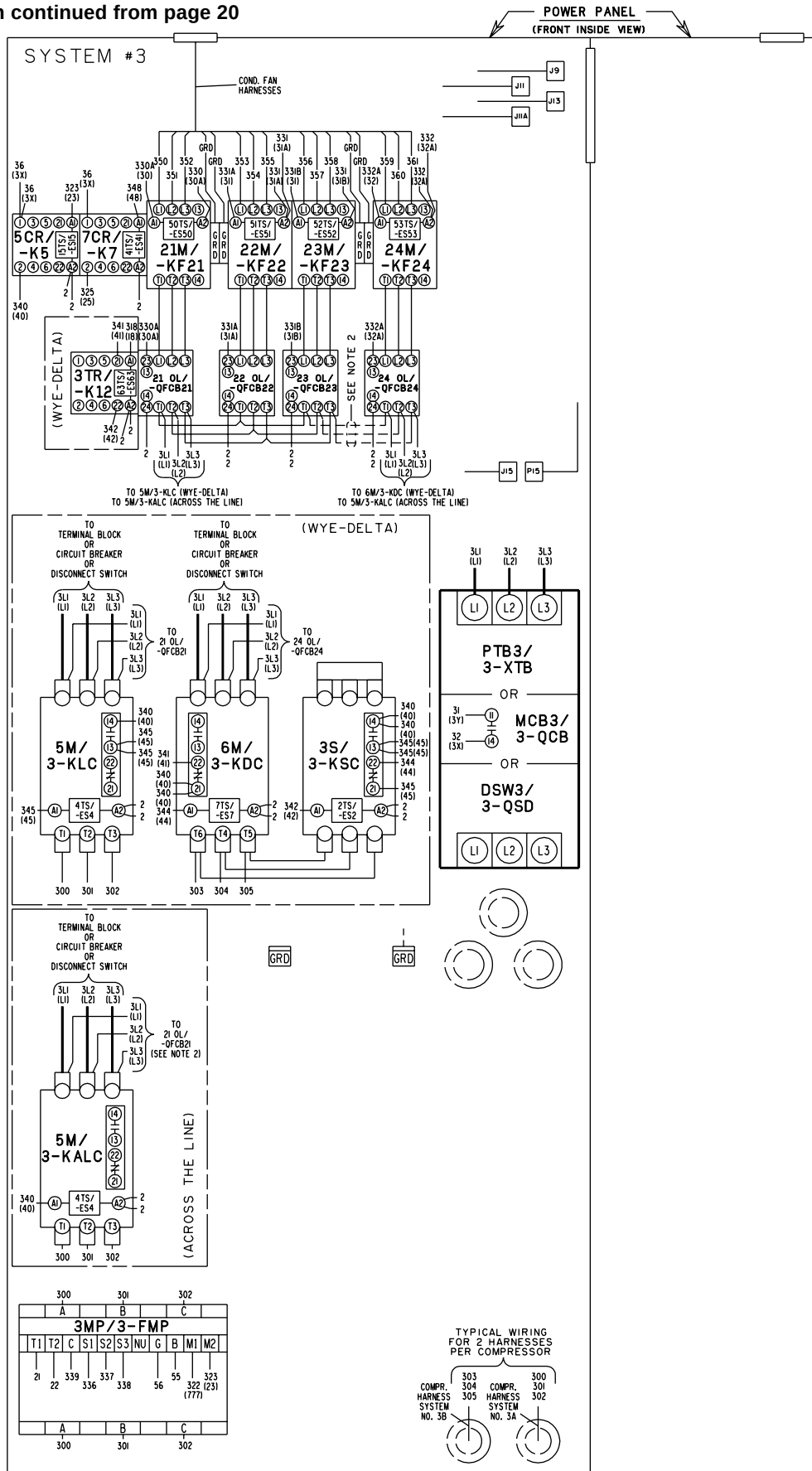


FIG. 7 – CONNECTION DIAGRAM

CONNECTION DIAGRAM

Box Information continued from page 20

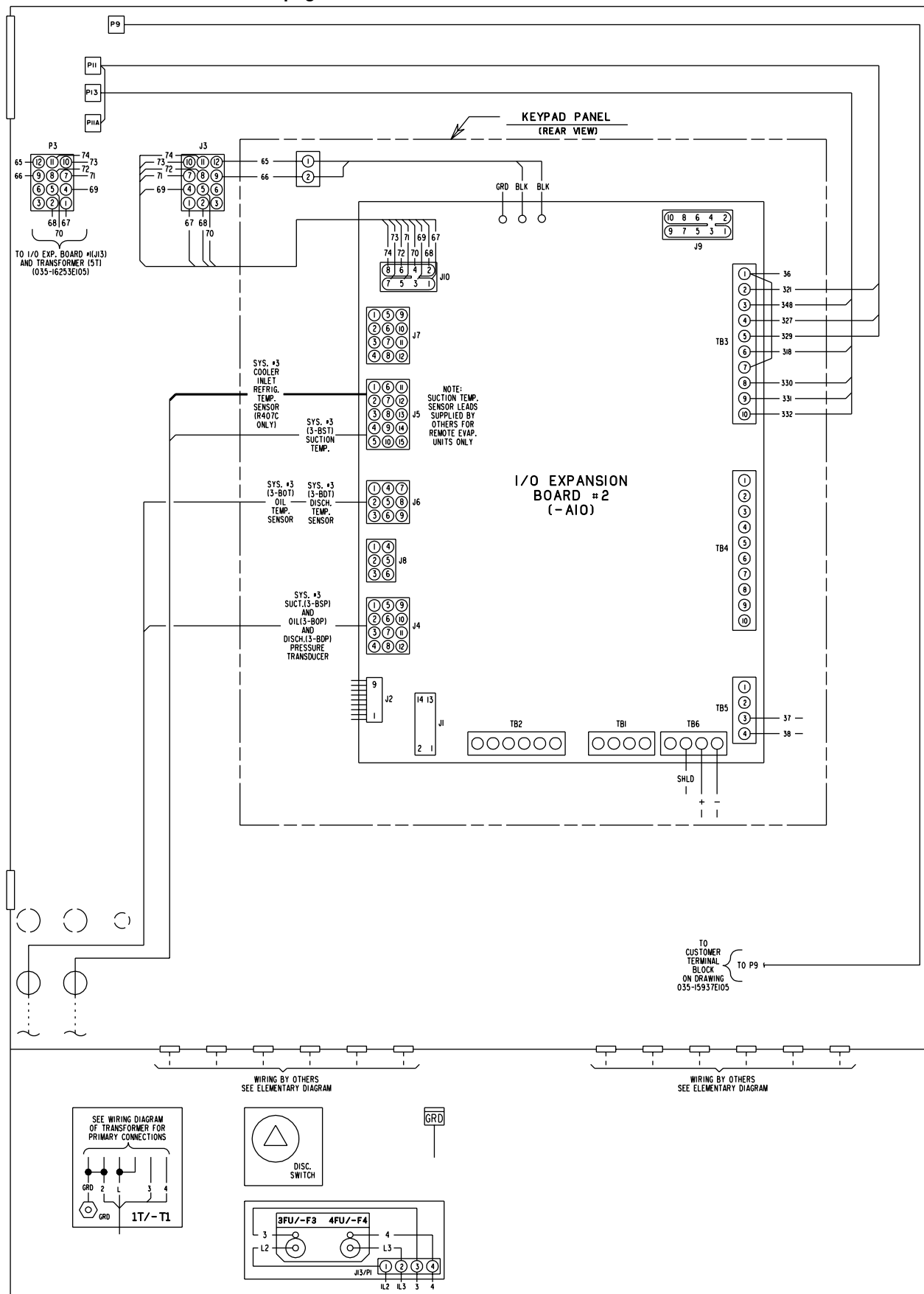


FIG. 8 – CONNECTION DIAGRAM

LD04181

CONNECTION DIAGRAM. ELEC. BOX STANDARD AND REMOTE EVAP. UNITS

J9, J11, J14,
J13, J15, P15
P9, P11, P14,
P15.

— POWER PANEL
— ELECTRONIC (MICRO) PANEL

NOTE: 1. WIRE NUMBERS IDENTIFIED IN
(PARENTHESES) INDICATE THE
ACTUAL HARNESS CODE STAMPED
ON THE WIRE.

2. FOR 380V-575V CHILLERS, POWER TO
4TH AND 5TH FANS IS VIA
JUMBERS
FROM 3RD MANUAL STARTER.
FOR 200V-230V CHILLERS A SECOND
POWER FEED IS PROVIDED AS SHOWN.

PLUG NO.	WIRE NO.	PLUG PIN NO.
	21	1
	22	2
P9	22	3
	35	4
	36	5

PLUG NO.	WIRE NO.	PLUG PIN NO.
	21	1
	2	2
J9	22	3
	37	4
	38	5

PLUG NO.	WIRE NO.	PLUG PIN NO.
	325	1
P14	322	2

PLUG NO.	WIRE NO.	PLUG PIN NO.
	25	1
J14	277	2

J9, J11, J11A,
J13, J15, P15 — POWER PANEL

P9, P11, P11A,
P13, — ELECTRONIC (MICRO) PANEL

NOTE: 1. WIRE NUMBERS IDENTIFIED IN
(PARENTHESIS) INDICATE THE
ACTUAL HARNESS CODE STAMPED
ON THE WIRE.

2. FOR 380V-575V CHILLERS, POWER TO 4TH AND 5TH FANS IS VIA JUMPERS FROM 3RD MANUAL STARTER. FOR 200V-230V CHILLERS A SECOND POWER FEED IS PROVIDED AS SHOWN.

PLUG NO.	WIRE NO.	PLUG PIN NO.
P9	21	1
	22	2
	22	3
	32	4
	36	5

PLUG NO.	WIRE NO.	PLUG PIN NO.
J9	21	1
	22	2
	22	3
	3Y	4
	3X	5

PLUG NO.	WIRE NO.	PLUG PIN NO.
PIIA	325	1
	322	2

PLUG NO.	WIRE NO.	PLUG PIN NO.
JIIA	25	1
	777	2

- MICRO PANEL TRANSFORMERS
- MICRO RELAYS
- TRANSIENT SUPPRESSORS
- POWER TERMINAL BLOCK
- MOTOR CIRCUIT BREAKER
- DISCONNECT SERVICE SWITCH

WIRING BY YORK
WIRING BY OTHERS
OPTIONAL WIRING AND/OR COMPONENTS

LEGEND	
5N	-COMPRESSOR CONTACTORS
3-KLC OR 3-K4LC	-COMPRESSOR CONTACTORS
6N, 8N/	-COMPRESSOR CONTACTORS
3-NOC	-COMPRESSOR CONTACTORS
3S	-COMPRESSOR CONTACTORS
3-NSC	-CONDENSER FAN CONTACTOR
21TH THRU 24TH	(SYS. #31)
ME21 THRU -ME24	(SYS. #31)
3NP/3-FHP	-MOTOR PROTECTOR (SYS. #31)

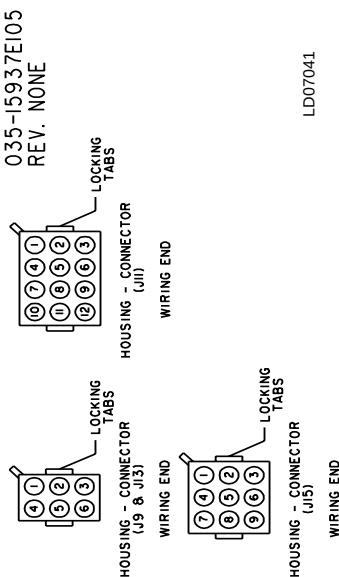
**CONTROL TRANSFORMER 2KVA
(OPTIONAL)**

PLUG NO.	WIRE NO.	PLUG PIN NO.
P15	325	1
	2	2
	323	3
	340	4
	341	5
	342	6
	32	7
PLUG NO.	WIRE NO.	PLUG PIN NO.
J15	25	1
	2	2
	23	3
	40	4
	41	5
	42	6
	34	7

PLUG NO.	WIRE NO.	PLUG PIN NO.
P13	330	1
	331	2
	332	3
	348	4
	318	6

PLUG NO.	WIRE NO.	PLUG PIN NO.
P11	2	1
	GRD	2
	325	3
	329	5
	327	4
	321	11
	322	12

PLUG NO.	WIRE NO.	PLUG PIN NO.
J11	2	1
	GRD	2
	325A	3
	329A	5
	327A	4
	321A	11
	322	12



LD07041

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CONNECTION DIAGRAM - ELECTRICAL BOX STANDARD & REMOTE EVAP. UNITS

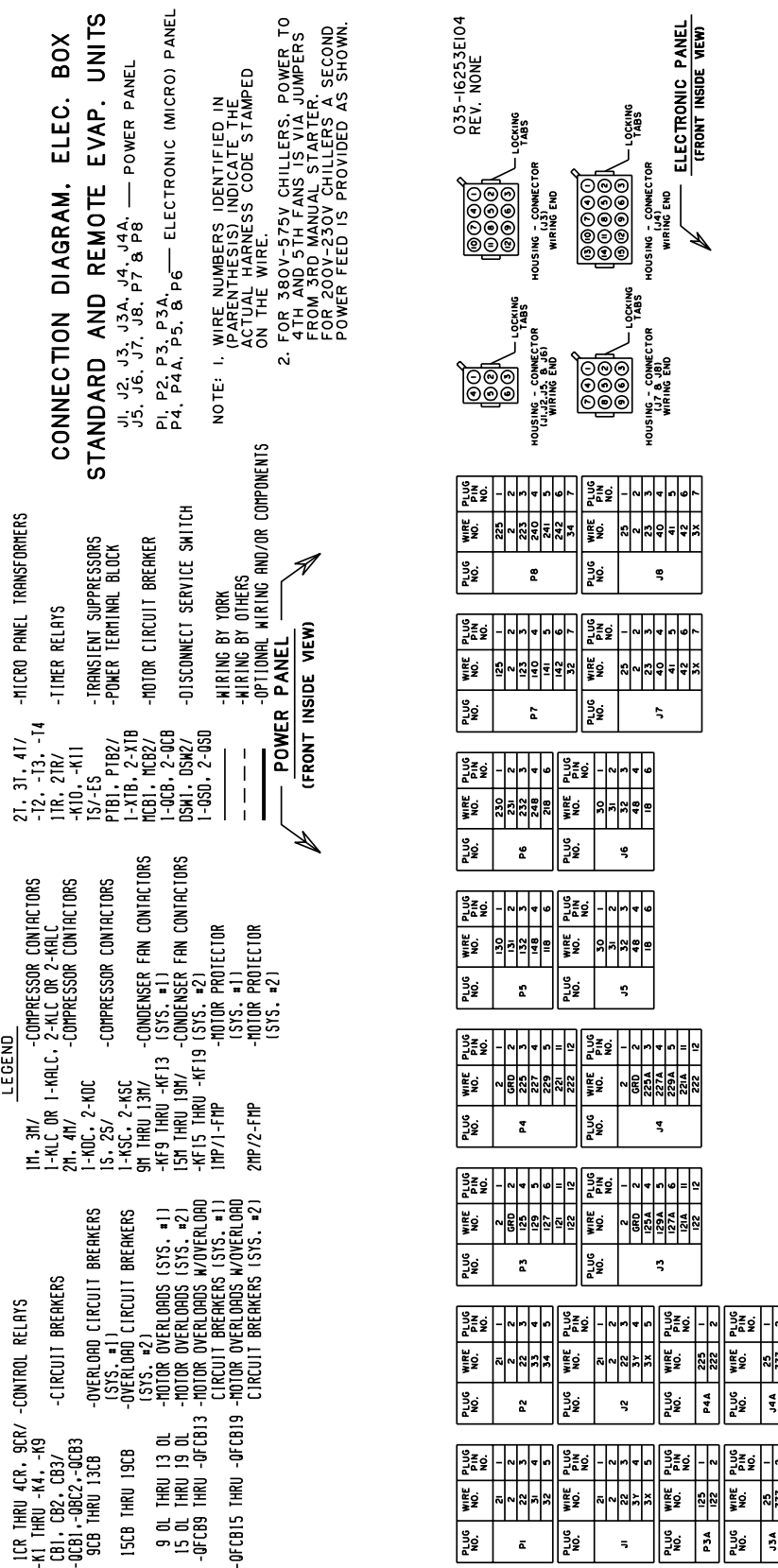
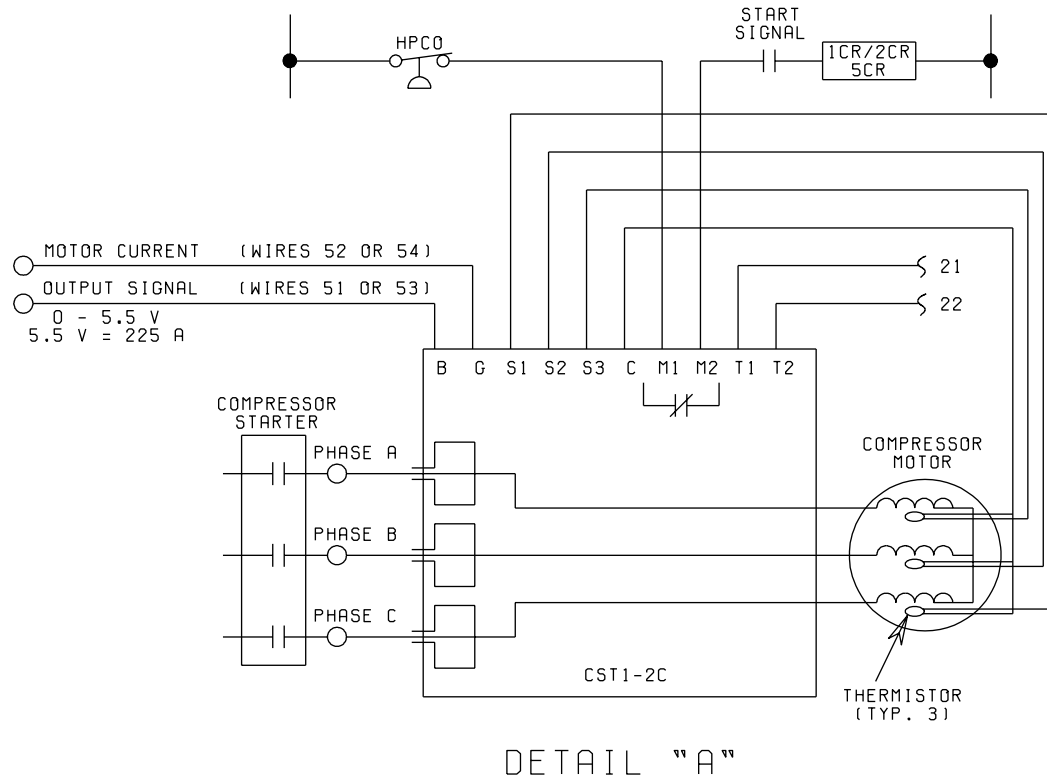


FIG. 10 – CONNECTION DIAGRAM

ELEMENTARY DIAGRAM DXST DIRECT DRIVE CONTROL CIRCUIT



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 WIRING.
3. TO CYCLE UNIT ON AND OFF AUTOMATICALLY WITH CONTACT SHOWN, INSTALL A CYCLING DEVICE IN SERIES WITH THE FLOW SWITCH (FLSW). 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 100VA AT 115VOLTS A.C.
5. ALARM CONTACTS ARE FOR ANNUNCIATING ALARM/UNIT MALFUNCTION. 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. JUMPER MUST BE INSTALLED FOR THREE COMPRESSOR OPERATION.

LEGEND

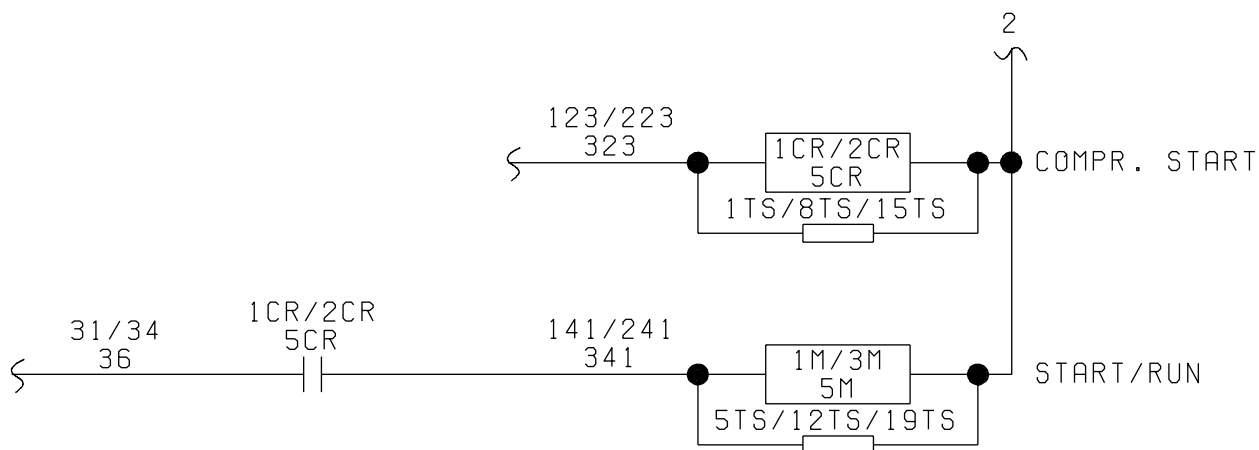
TS	TRANSIENT VOLTAGE SUPPRESSION
⬡	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
⬢	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
□	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
—	WIRING AND COMPONENTS BY YORK
---	OPTIONAL EQUIPMENT
---	WIRING AND/OR COMPONENTS BY OTHERS

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REV. NONE

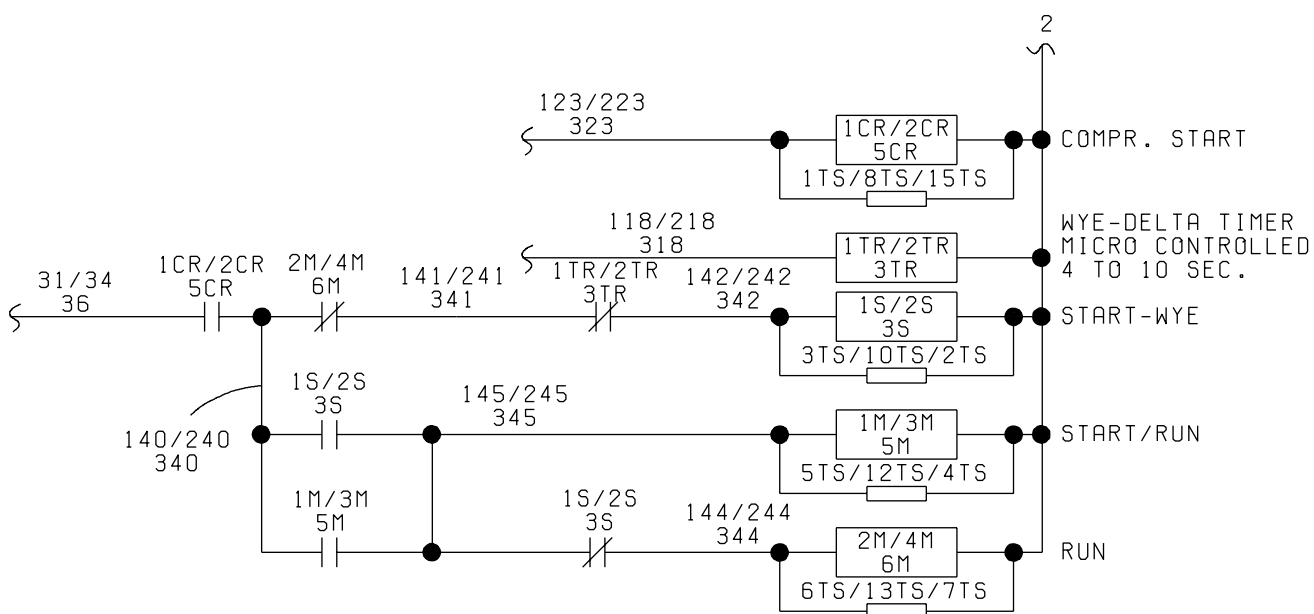
LD04177

FIG. 11 – ELEMENTARY DIAGRAM, DXST DIRECT DRIVE - CONTROL CIRCUIT

ELEMENTARY DIAGRAM DXST DIRECT DRIVE CONTROL CIRCUIT



ACROSS THE LINE START

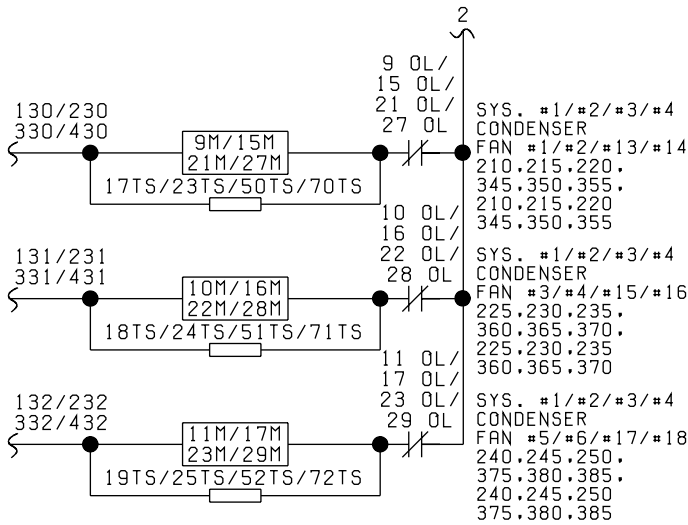


WYE DELTA START

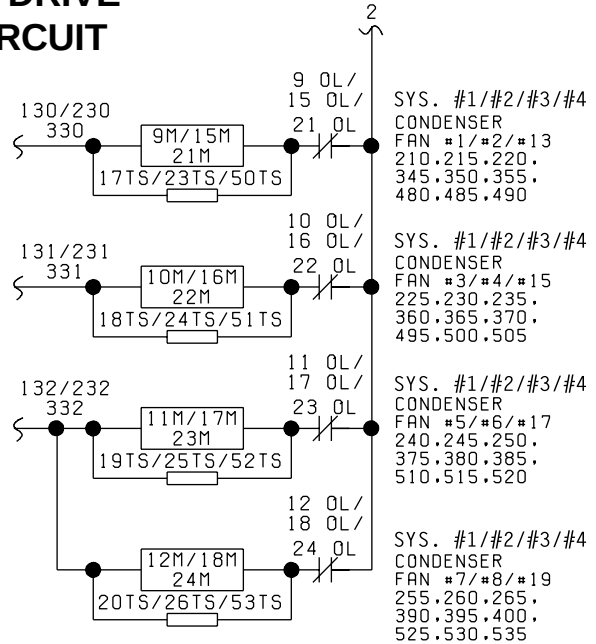
DETAIL "B"

FIG. 12 – ELEMENTARY DIAGRAM, DXST DIRECT DRIVE - CONTROL CIRCUIT

ELEMENTARY DIAGRAM DXST DIRECT DRIVE CONTROL CIRCUIT



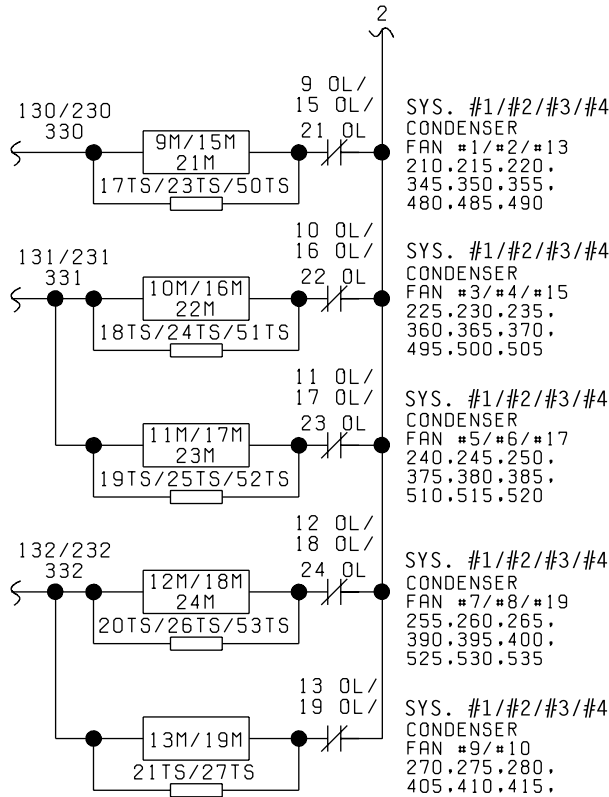
3 FANS PER SYSTEM



4 FANS PER SYSTEM

DETAIL "C"

SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL
FOR JUMPER OF CONDENSER FANS FOR CHILLER MODEL

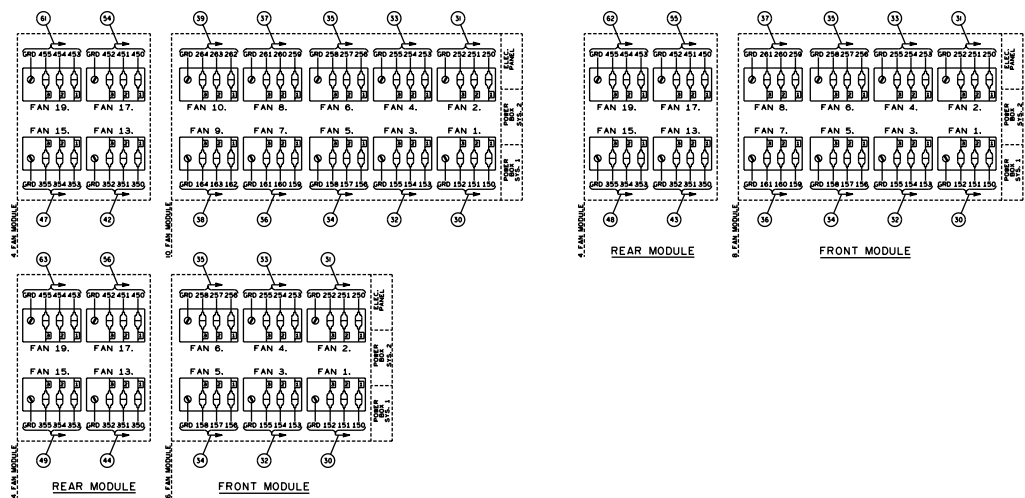


5 FANS PER SYSTEM

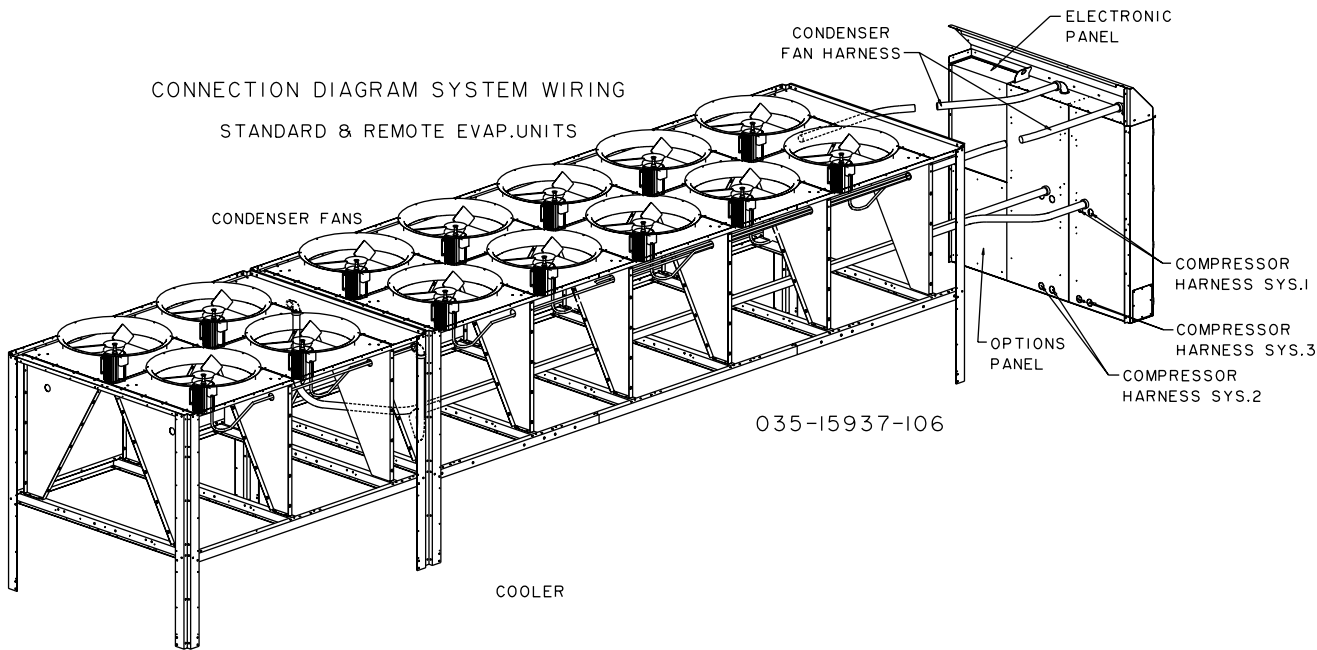
LD04374

FIG. 13 – ELEMENTARY DIAGRAM, DXST DIRECT DRIVE - CONTROL CIRCUIT

CONNECTION DIAGRAM SYSTEM WIRING
STANDARD & REMOTE EVAP. UNITS



CONNECTION DIAGRAM SYSTEM WIRING
STANDARD & REMOTE EVAP. UNITS



LEGEND

- | | |
|--------|--|
| 1 HPCO | SYS. NO.1 HIGH PRESS. CUTOUT |
| 2 HPCO | SYS. NO.2 HIGH PRESS. CUTOUT |
| 3 HPCO | SYS. NO.3 HIGH PRESS. CUTOUT |
| 1 HTR | SYS.NO.1 COMPR. CRANKCASE HEATER |
| 2 HTR | SYS.NO.2 COMPR. CRANKCASE HEATER |
| 3 HTR | SYS.NO.3 COMPR. CRANKCASE HEATER |
| 4 HTR | COOLER HEATER |
| 1 LLSV | SYS.NO.1 LIQUID LINE SOLENIOD VALVE (UNIT IDENT) |
| 2 LLSV | SYS.NO.2 LIQUID LINE SOLENIOD VALVE (UNIT IDENT) |
| 3 LLSV | SYS.NO.3 LIQUID LINE SOLENIOD VALVE (UNIT IDENT) |
| 1 ESV | ECONOMIZER SOLENIOD VAVLE (UNIT IDENT) |
| 2 ESV | ECONOMIZER SOLENIOD VAVLE (UNIT IDENT) |
| 3 ESV | ECONOMIZER SOLENIOD VAVLE (UNIT IDENT) |
| TXV 1 | SYS.NO.1 THERMAL EXPANSION VALVE (UNIT IDENT) |
| TXV 2 | SYS.NO.2 THERMAL EXPANSION VALVE (UNIT IDENT) |
| TXV 3 | SYS.NO.3 THERMAL EXPANSION VALVE (UNIT IDENT) |

FRONT MODULE

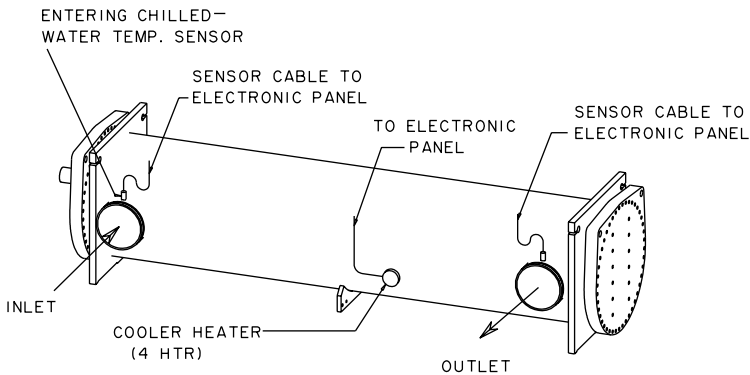
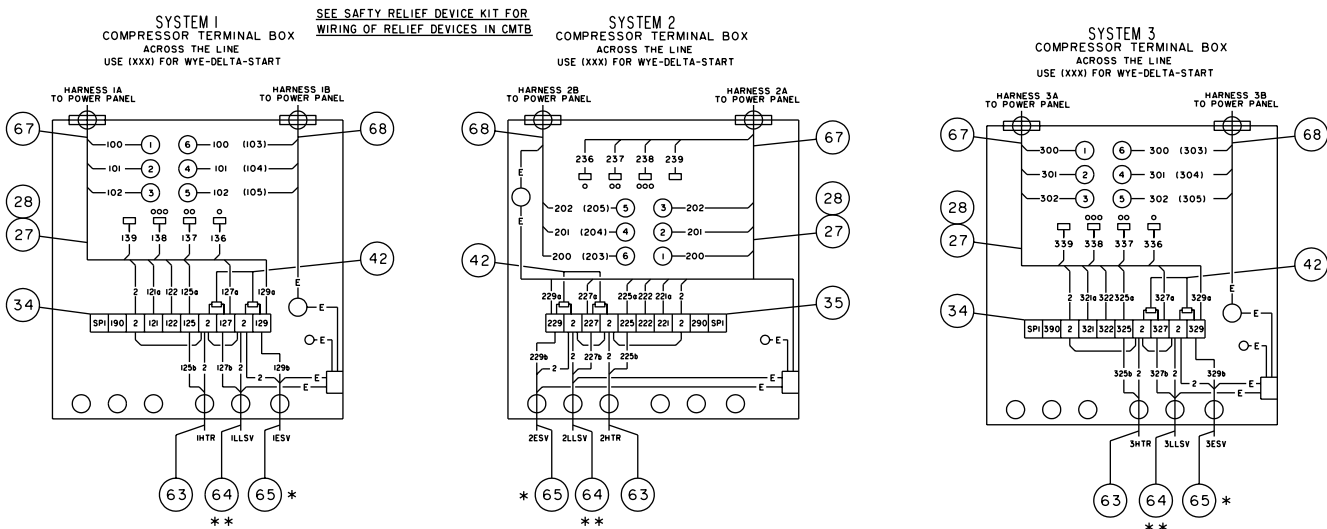
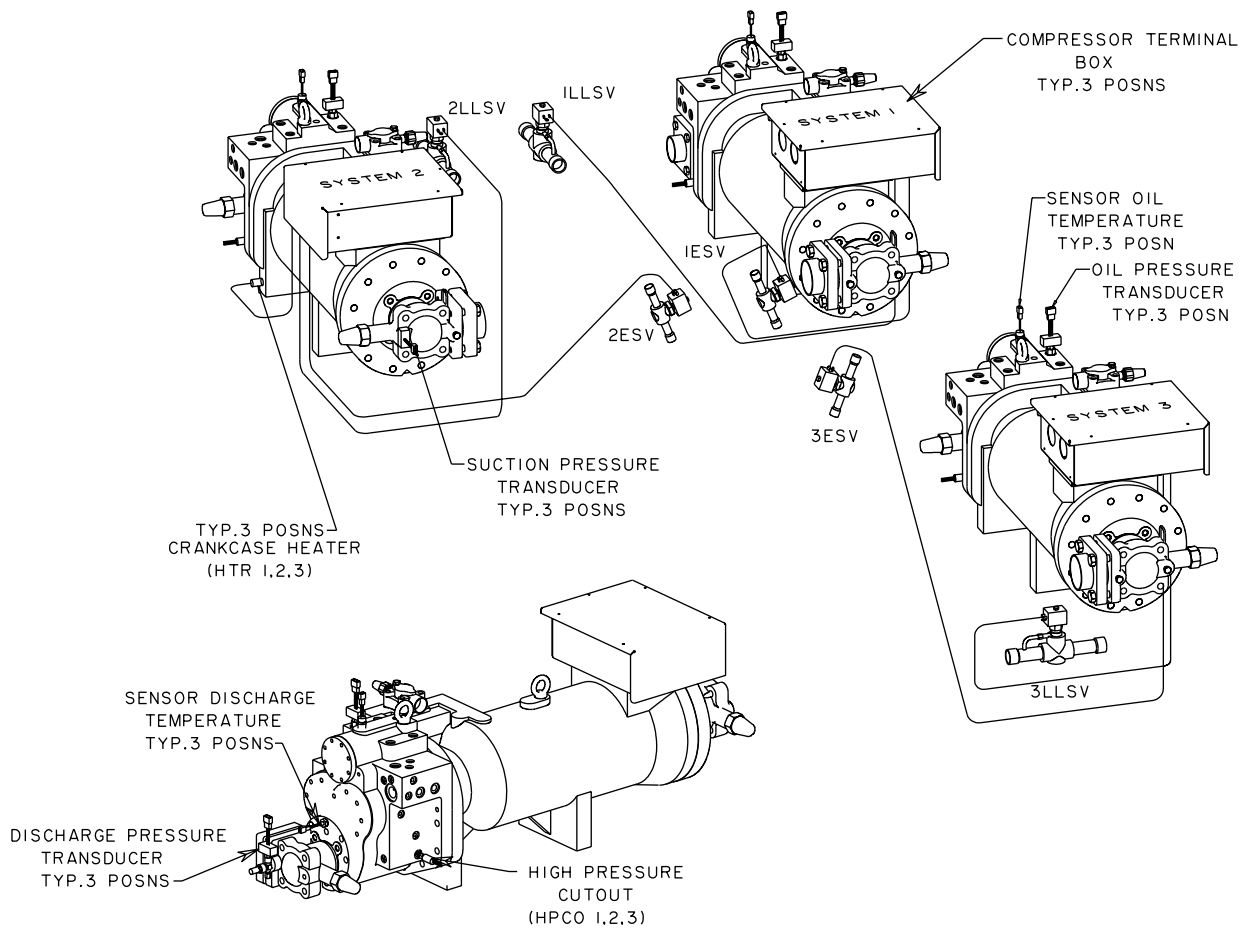


FIG. 14 – CONNECTION DIAGRAM SYSTEM WIRING

CONNECTION DIAGRAM SYSTEM WIRING STANDARD & REMOTE EVAP. UNITS

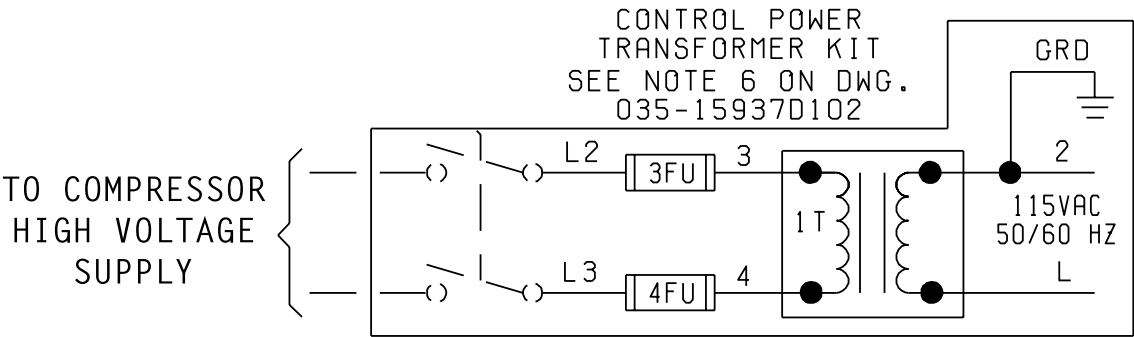
COMPRESSORS
(SYSTEMS 1,2,3)



LD04185

FIG. 15 – CONNECTION DIAGRAM SYSTEM WIRING

CONTROL POWER TRANSFORMER KIT



LD04186

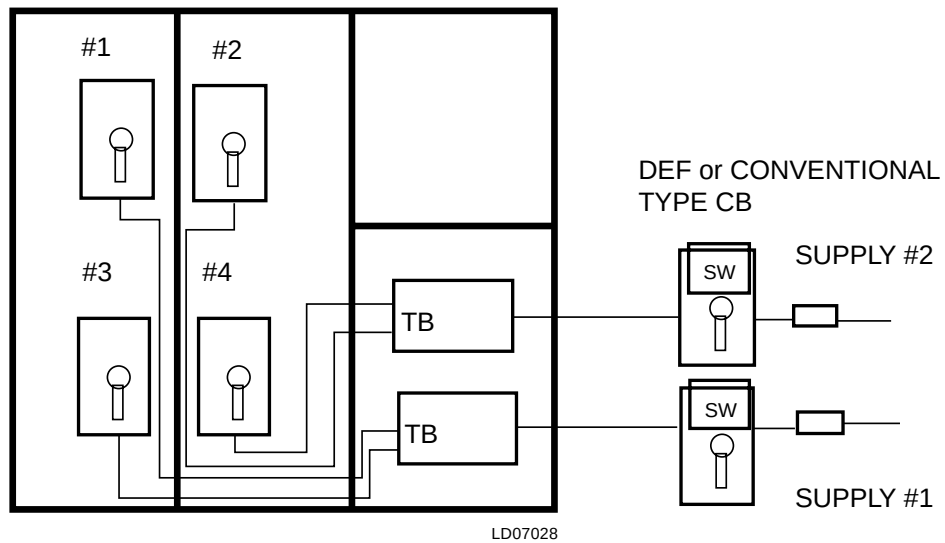
FIG. 16 – CONTROL POWER TRANSFORMER KIT

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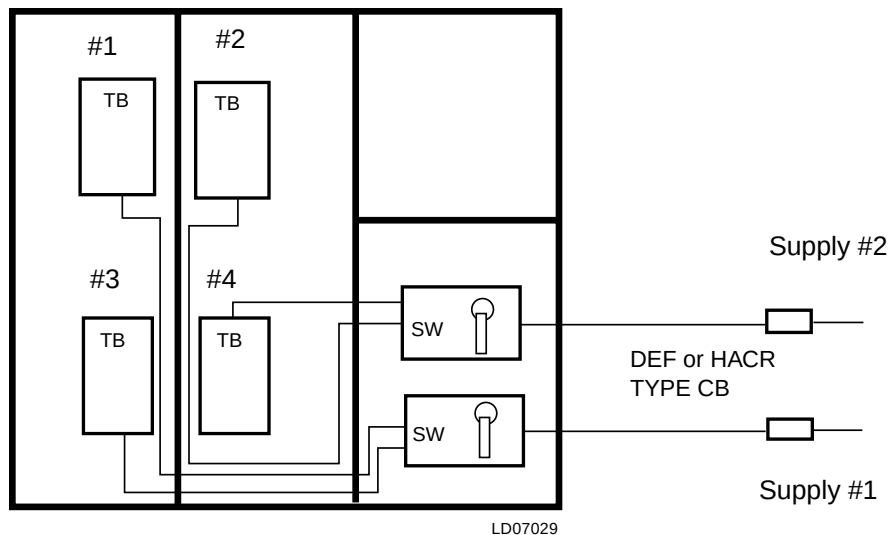
4 COMPRESSOR CHILLERS

POWER WIRING POSSIBILITIES

MULTIPLE POINT WITH SEPARATE SYSTEM CIRCUIT BREAKERS

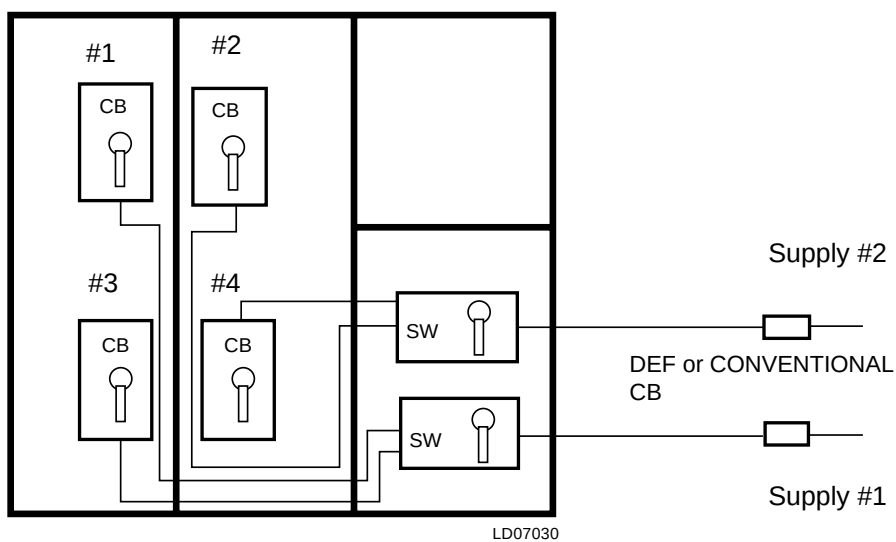


MULTIPLE POINT NON-FUSED DISCONNECTS WITH SEPARATE SYSTEM TERMINAL BLOCKS (SUITABLE FOR ACROSS-THE-LINE START ONLY)

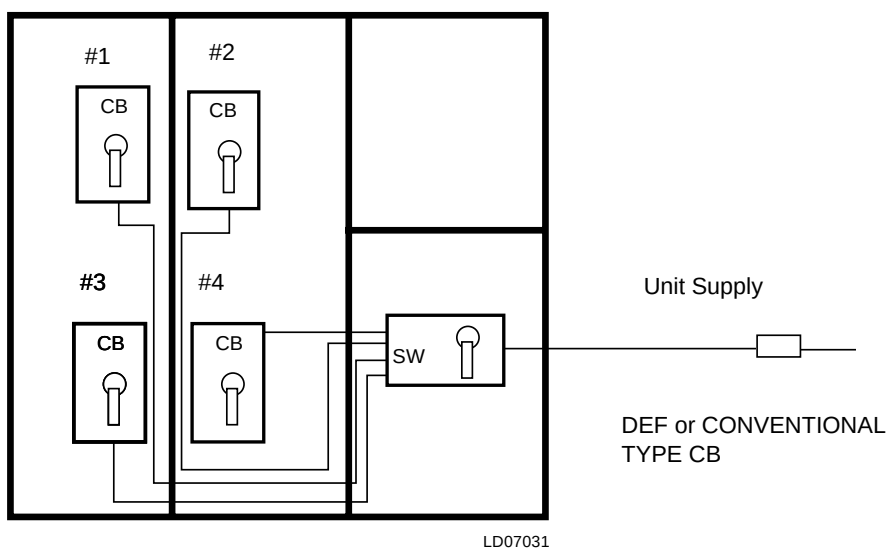


POWER WIRING POSSIBILITIES

MULTIPLE POINT NON-FUSED DISCONNECTS WITH SEPARATE SYSTEM CIRCUIT BREAKERS

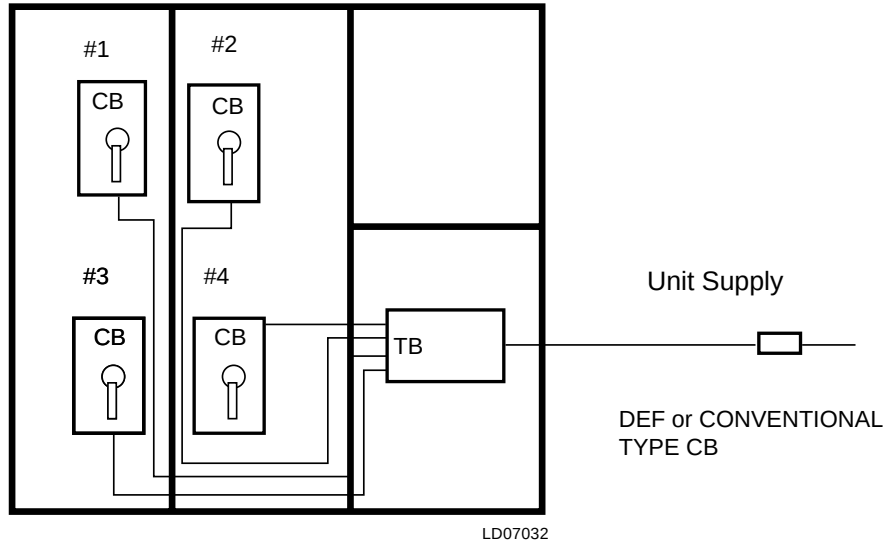


SINGLE-POINT WITH NON-FUSED DISCONNECT SWITCH & SYSTEM CIRCUIT BREAKERS

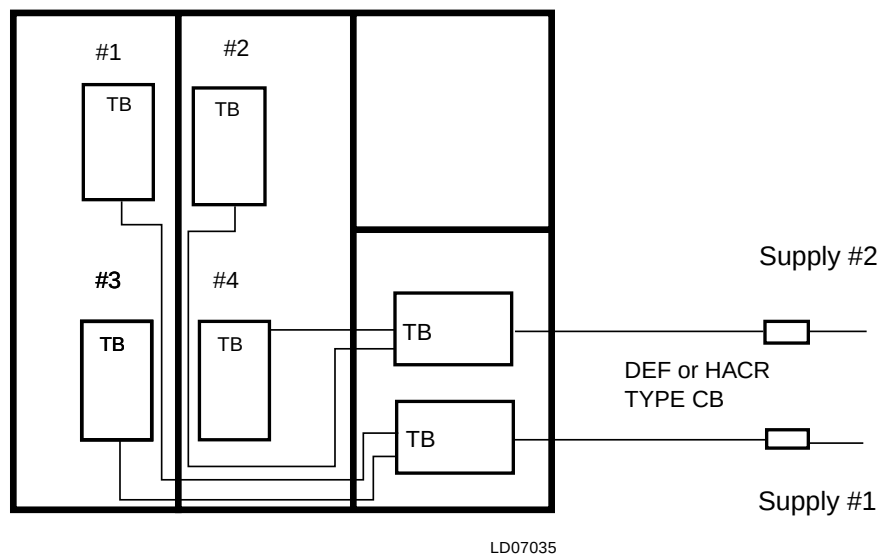


POWER WIRING POSSIBILITIES

SINGLE-POINT WITH SEPARATE SYSTEM CIRCUIT BREAKERS

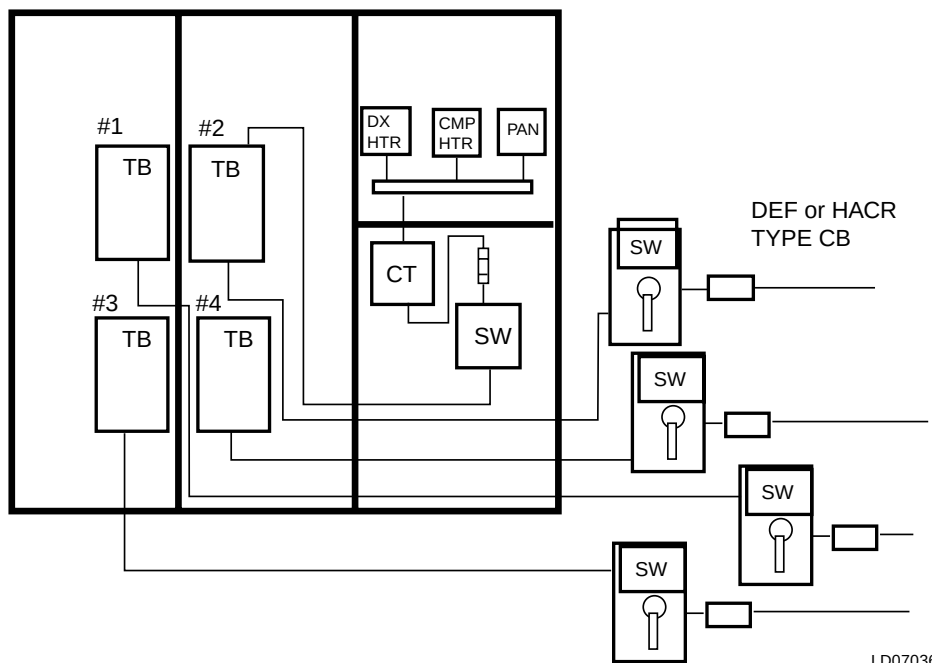


MULTIPLE POINT WITH SEPARATE SYSTEM TERMINAL BLOCKS (SUITABLE FOR ACROSS-THE-LINE START ONLY)

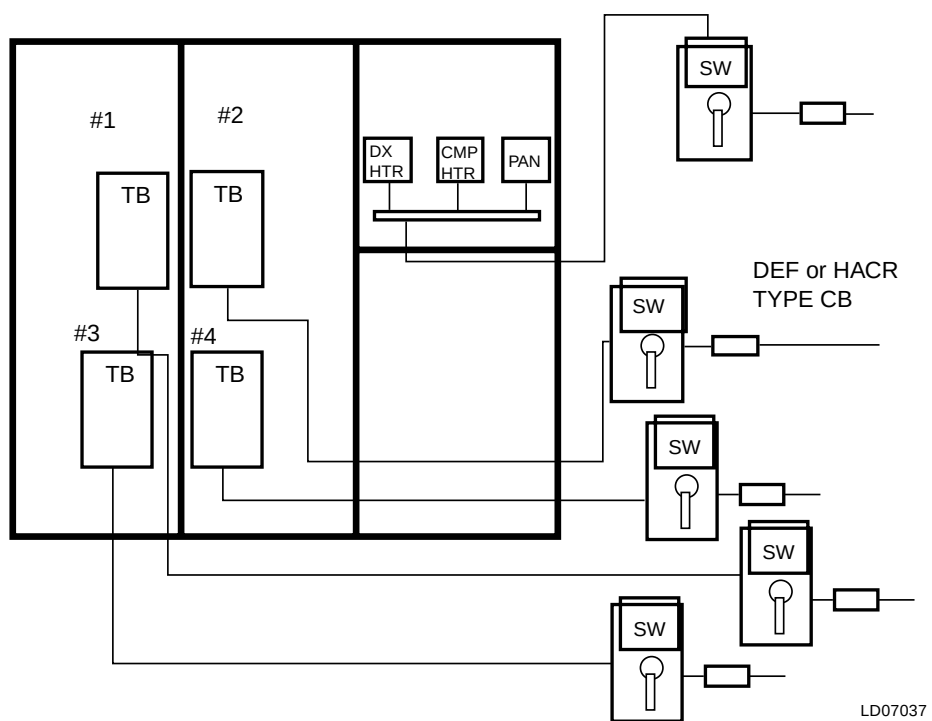


POWER WIRING POSSIBILITIES

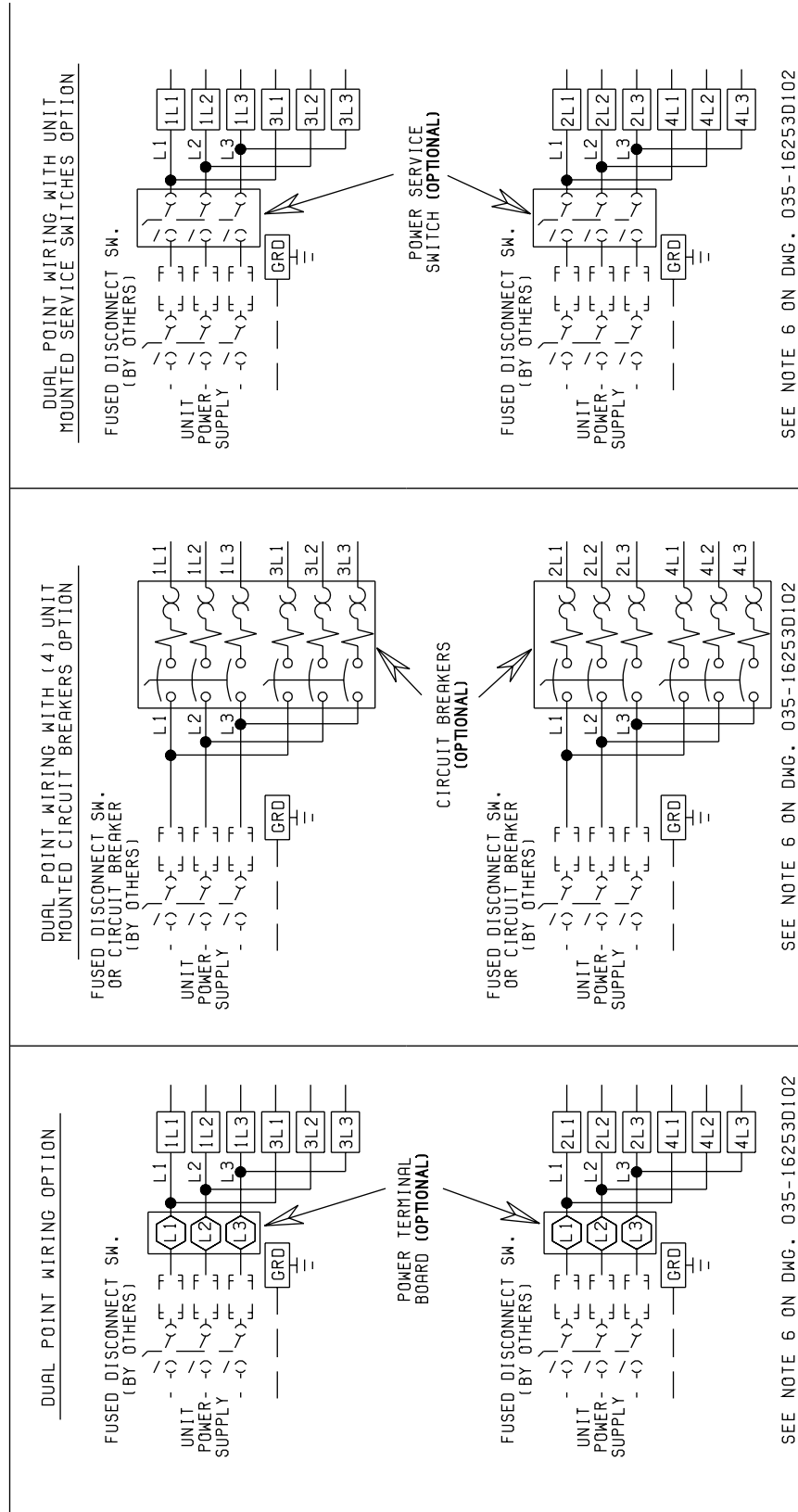
CONTROL (120-1-60) SUPPLY VIA STANDARD CONTROL TRANSFORMER



CONTROL (120-1-60) SUPPLY WITHOUT STANDARD CONTROL TRANSFORMER



ELEMENTARY DIAGRAM DXST DIRECT DRIVE POWER CIRCUIT



LD04260A

FIG. 17 – ELEMENTARY DIAGRAM



CONNECTION DIAGRAM SYSTEMS 1 & 2

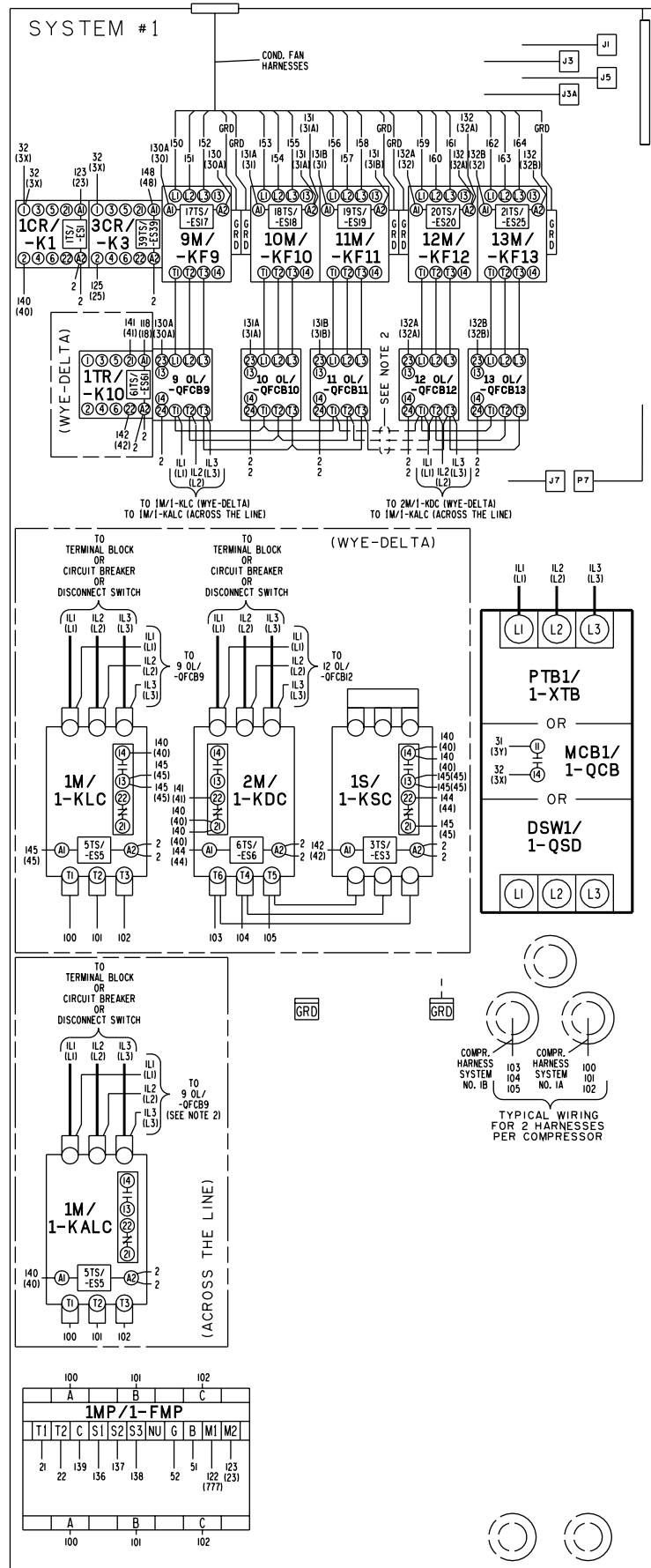
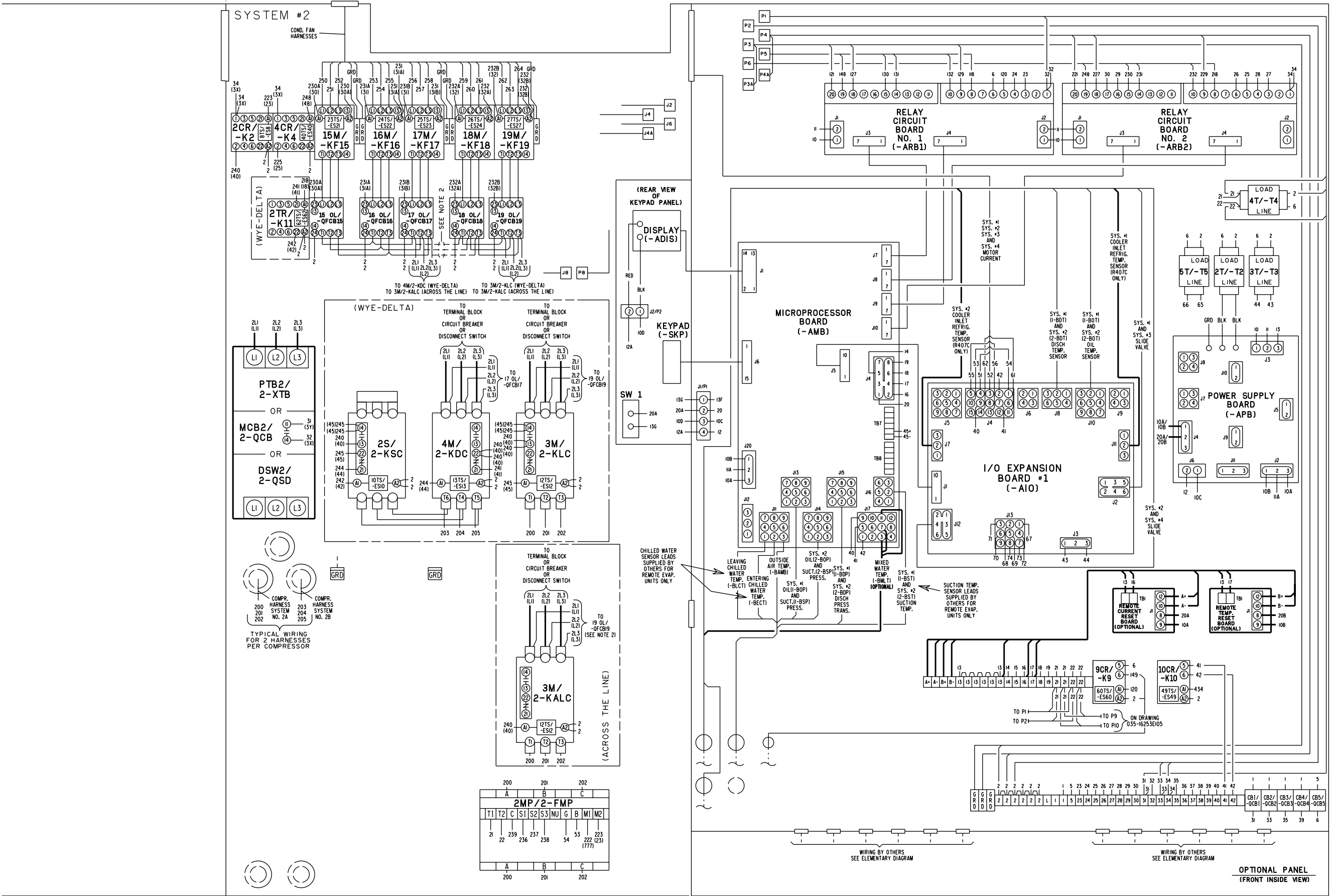


FIG. 19 – CONNECTION DIAGRAM

LD04265



LD04266

Diagram continued on following pages.

Diagram continued from previous pages.

CONNECTION DIAGRAM
SYSTEMS 3 & 4

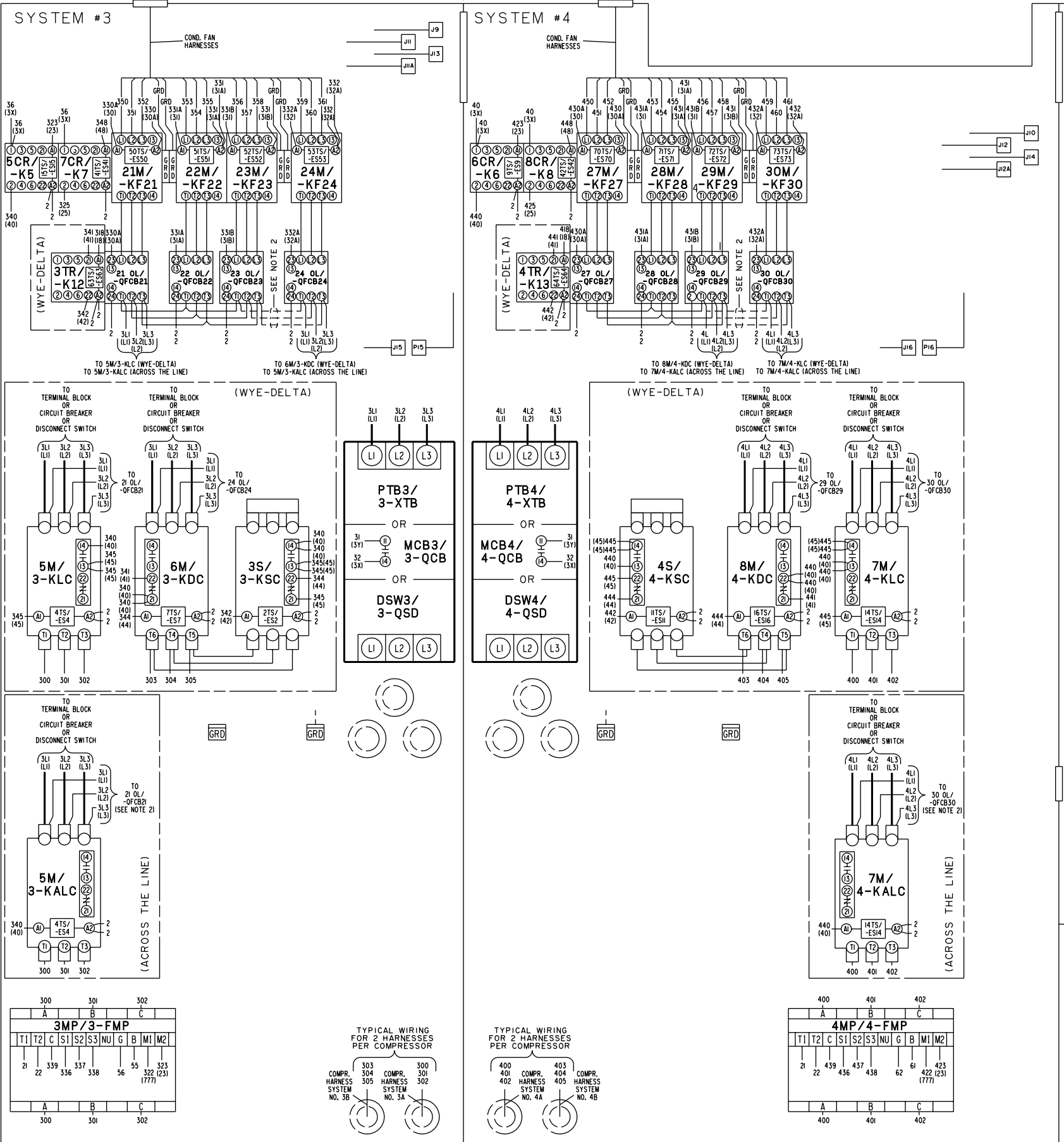
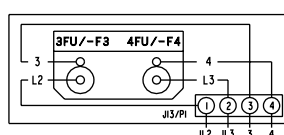
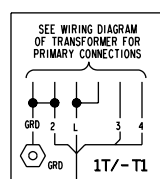
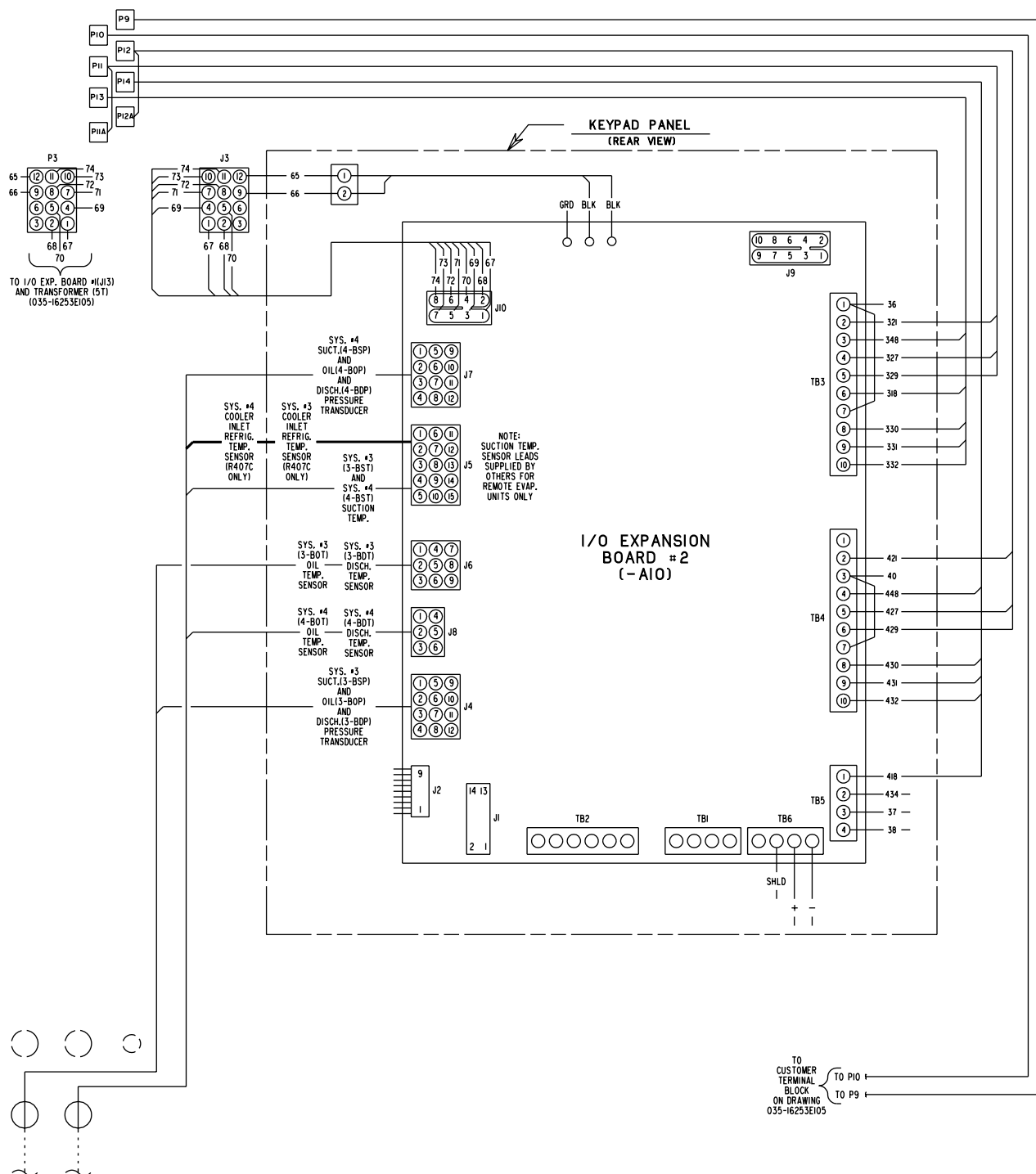


FIG. 20 - CONNECTION DIAGRAM



STANDARD COMPRESSOR POWER SUPPLIES ACROSS-THE-LINE START

STANDARD COMPRESSOR POWER SUPPLIES

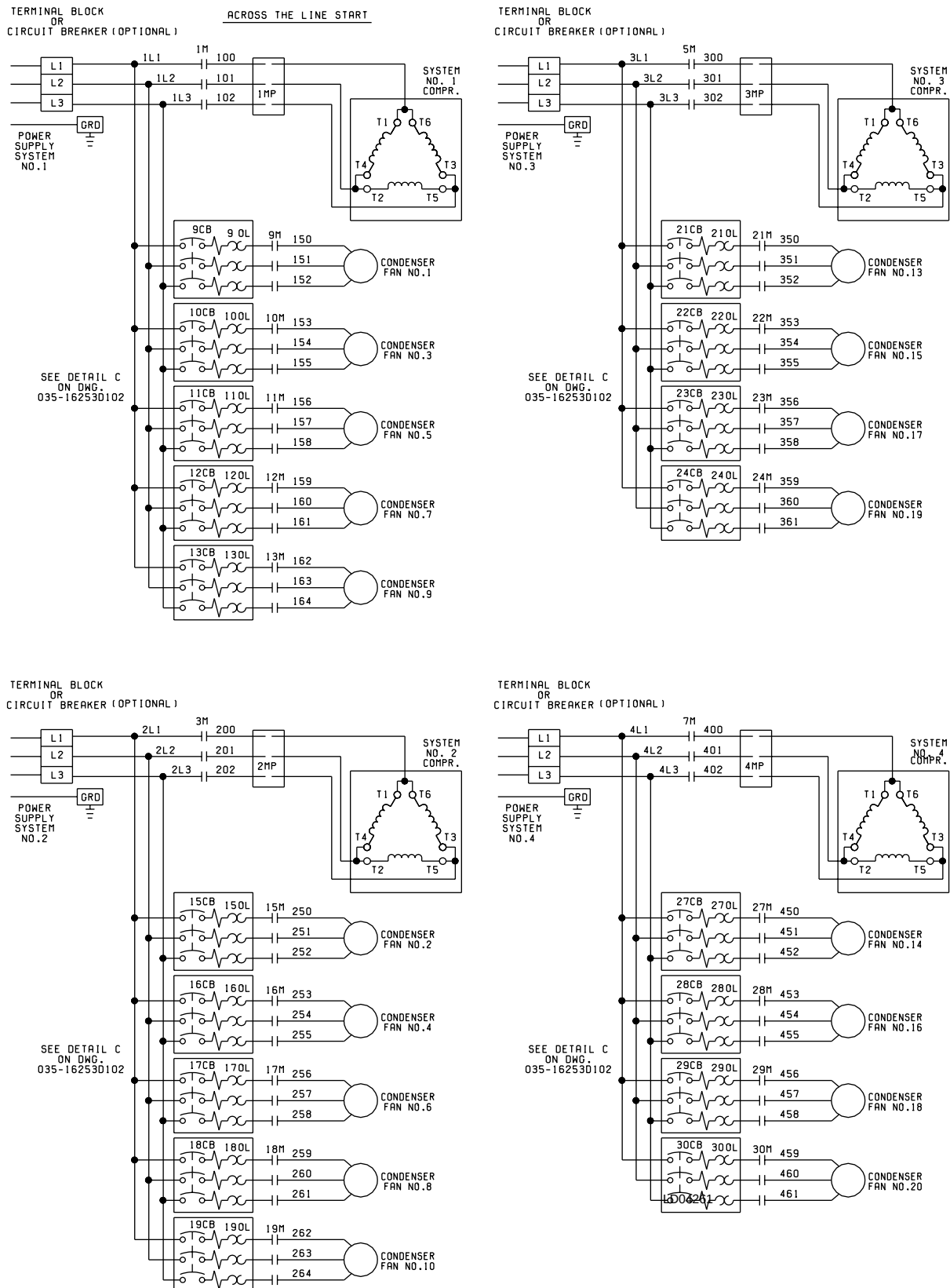


FIG. 21 – STANDARD POWER SUPPLY - ACROSS-THE-LINE START

STANDARD COMPRESSOR POWER SUPPLIES

WYE-DELTA START

STANDARD COMPRESSOR POWER SUPPLIES

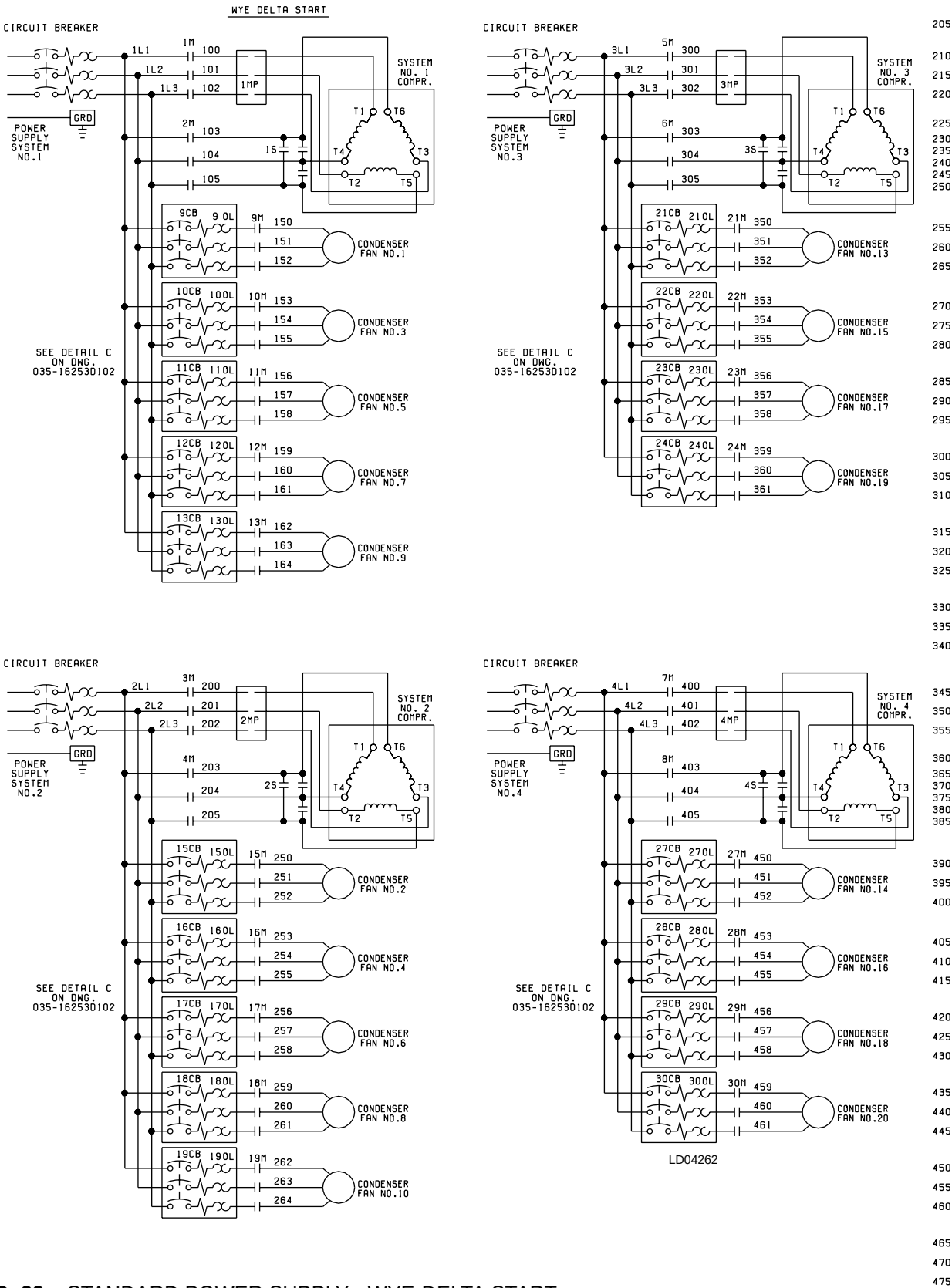


FIG. 22 – STANDARD POWER SUPPLY - WYE-DELTA START

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STANDARD COMPRESSOR POWER SUPPLIES ACROSS-THE-LINE START

035-16253D101
REV. NONE

ELEMENTARY DIAGRAM DXST DIRECT DRIVE CONTROL CIRCUIT

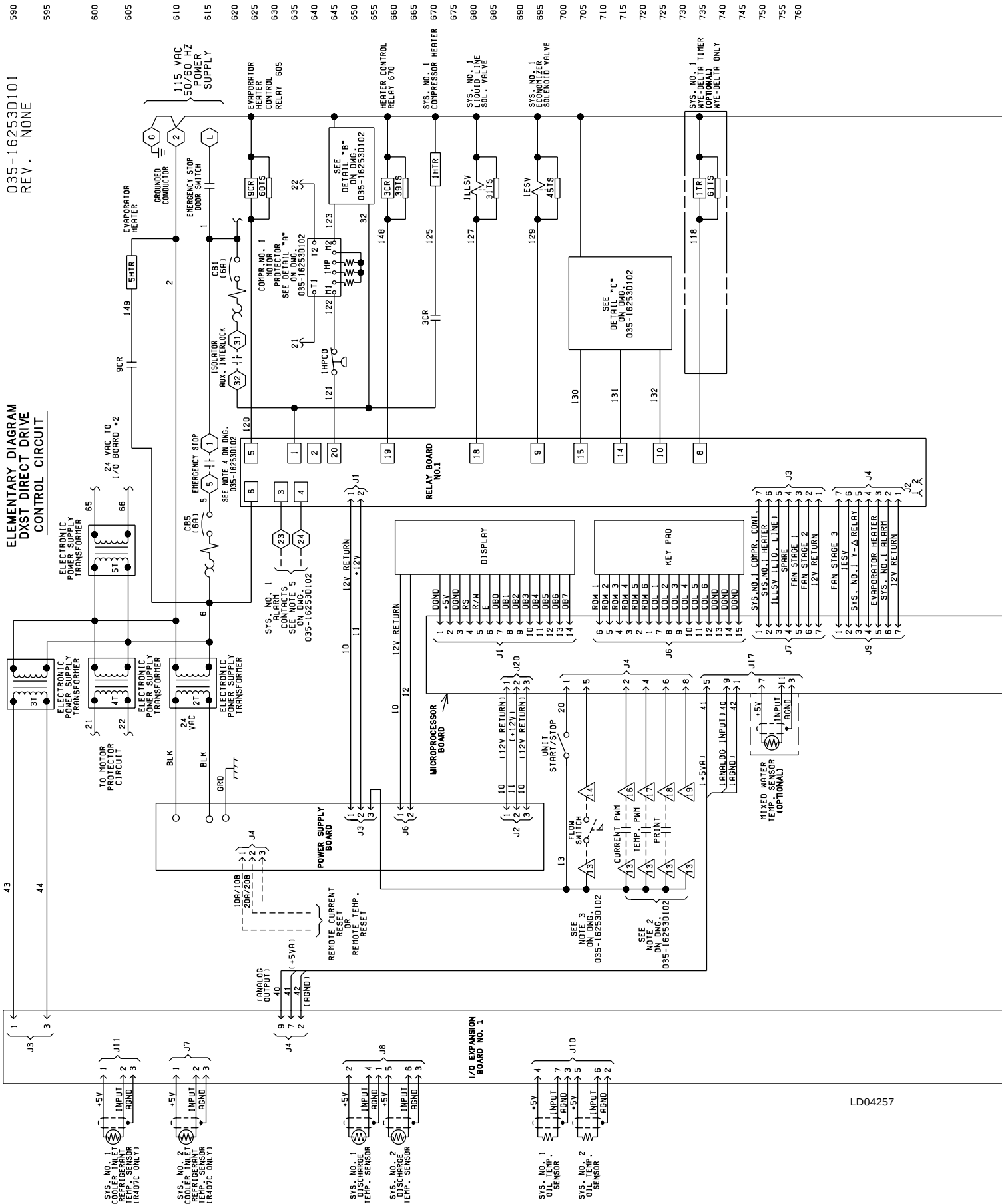
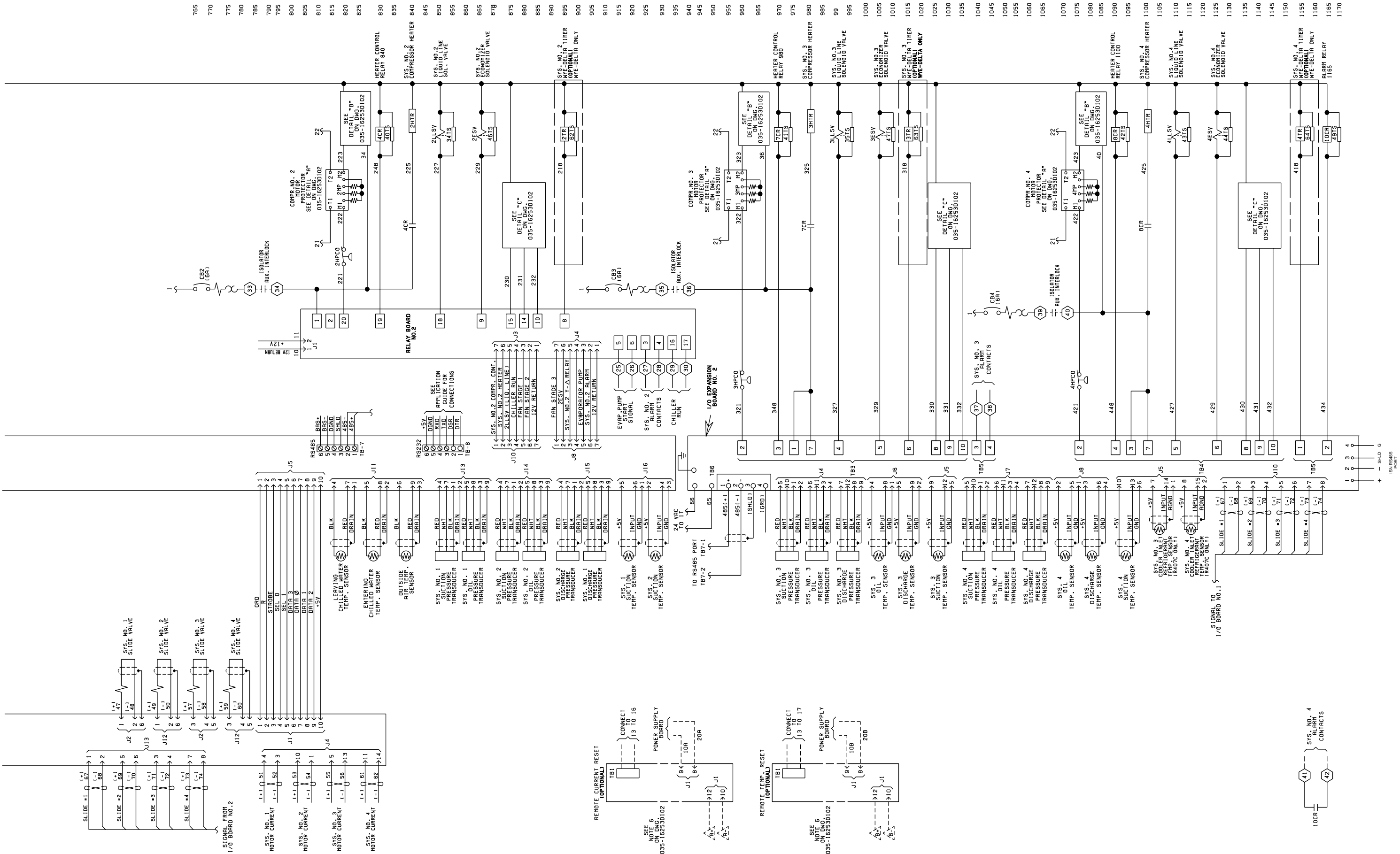
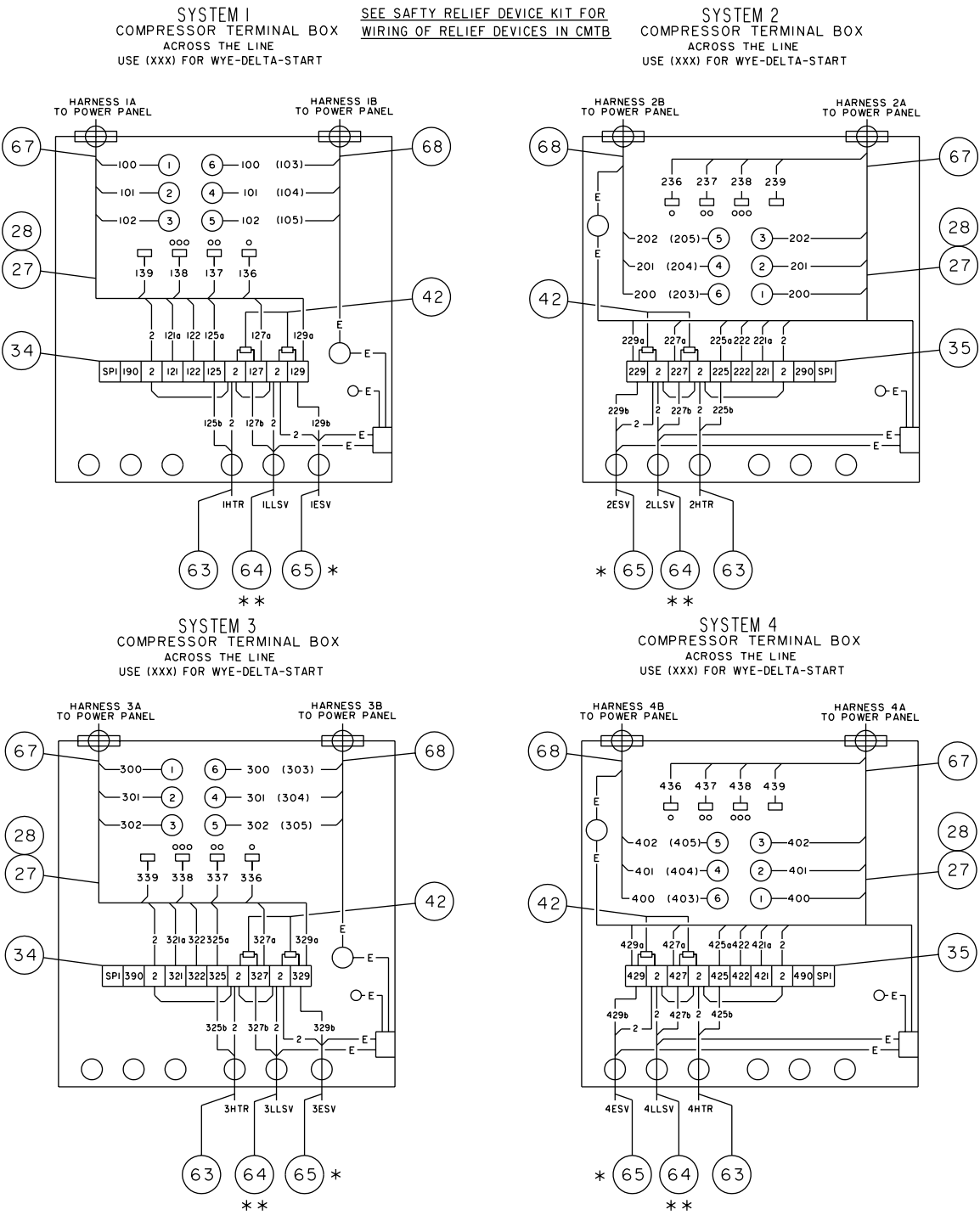


FIG. 23 – STANDARD COMPRESSOR POWER SUPPLIES - ACROSS-THE-LINE START



COMPRESSOR TERMINAL BOX SYSTEMS 1 THROUGH 4



LD04271

FIG. 24 – COMPRESSOR TERMINAL BOX, SYSTEMS 1-4

FIG. 25 – CONNECTION DIAGRAM

50



CONNECTION DIAGRAM - ELECTRICAL BOX STANDARD & REMOTE EVAP. UNITS

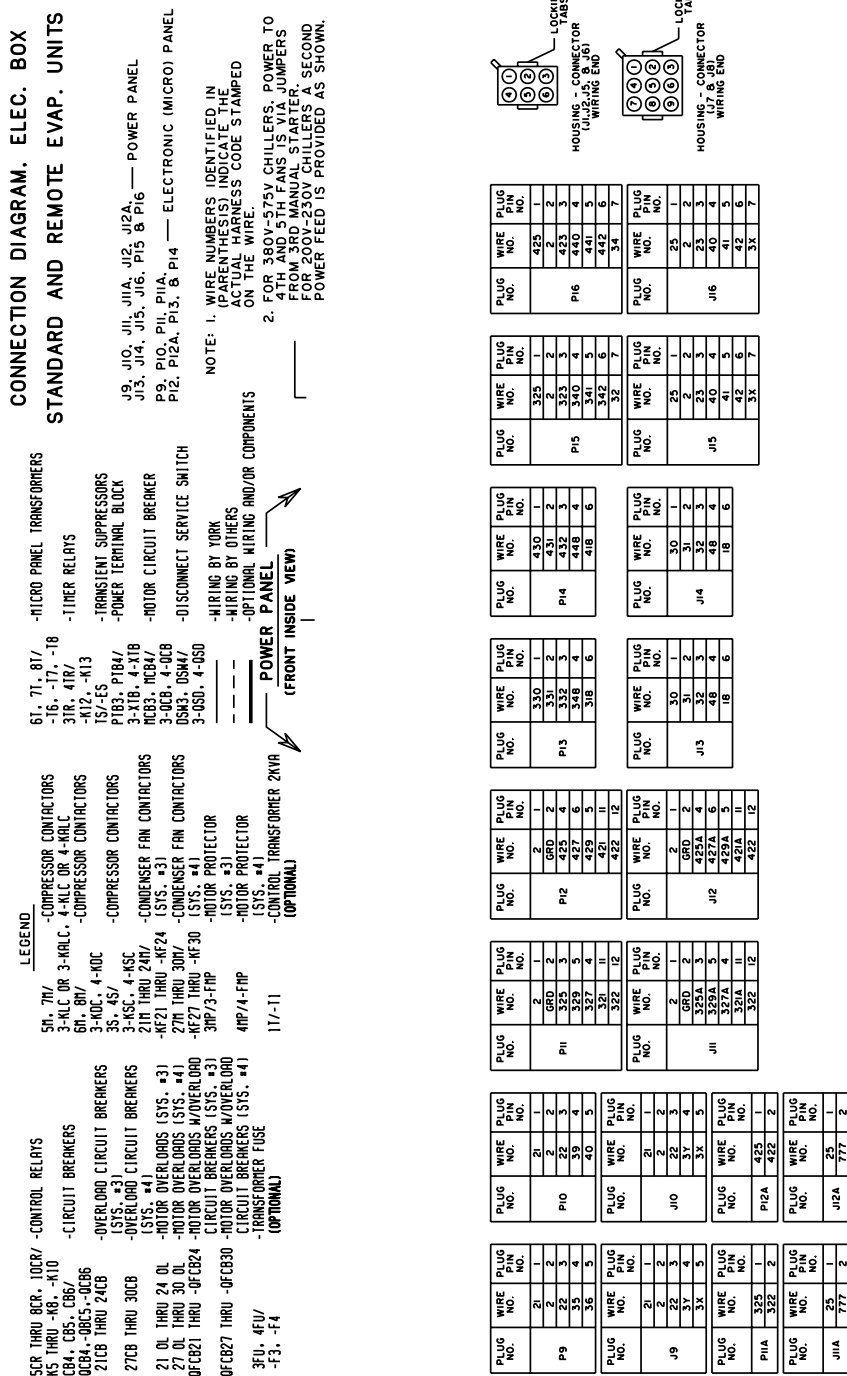
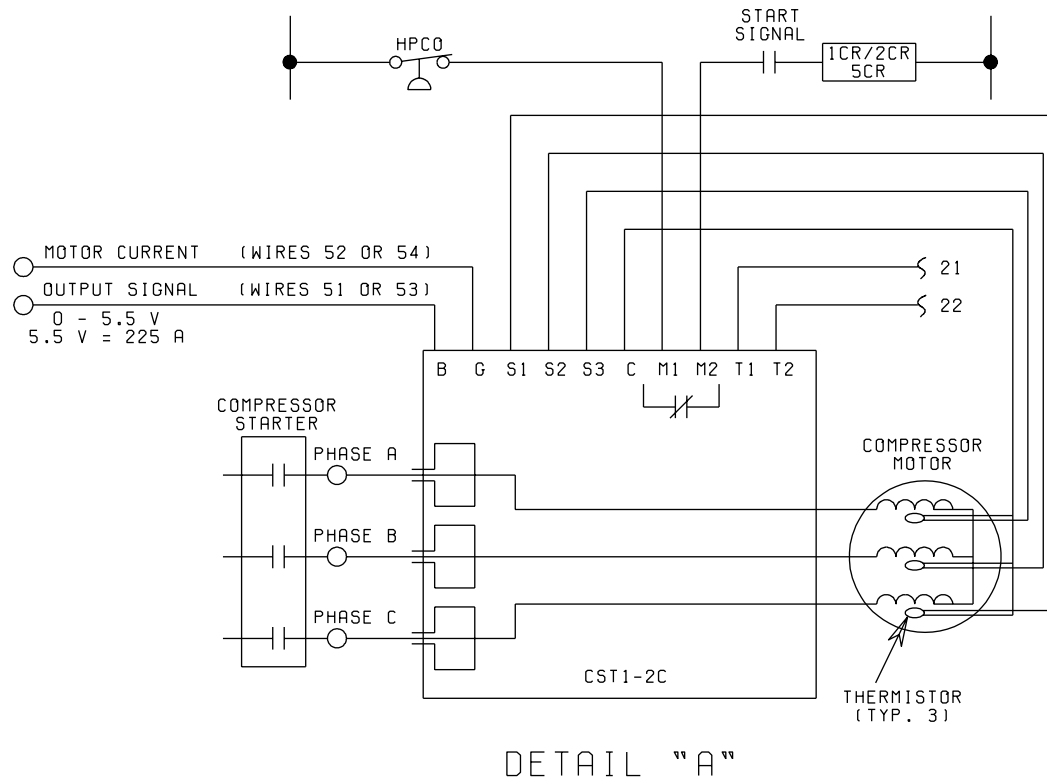


FIG. 26 – CONNECTION DIAGRAM

ELEMENTARY DIAGRAM DXST DIRECT DRIVE CONTROL CIRCUIT



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 WIRING.
3. TO CYCLE UNIT ON AND OFF AUTOMATICALLY WITH CONTACT SHOWN, INSTALL A CYCLING DEVICE IN SERIES WITH THE FLOW SWITCH (FLSW). 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 100VA AT 115VOLTS A.C.
5. ALARM CONTACTS ARE FOR ANNUNCIATING ALARM/UNIT MALFUNCTION. 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. JUMPER MUST BE INSTALLED FOR THREE COMPRESSOR OPERATION.

LEGEND

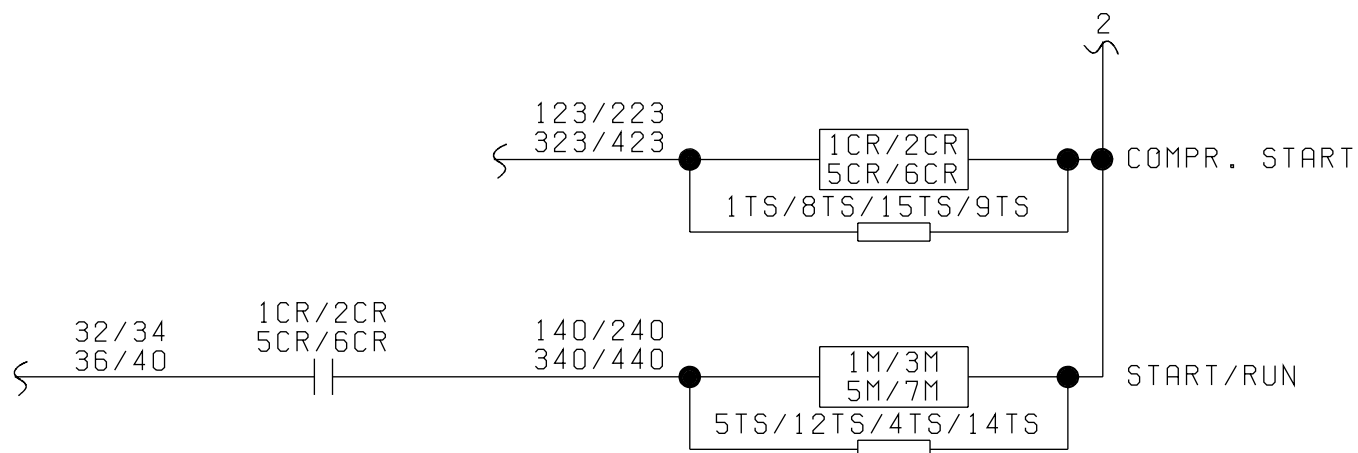
TS	TRANSIENT VOLTAGE SUPPRESSION
⬡	TERMINAL BLOCK FOR CUSTOMER CONNECTIONS
⬢	TERMINAL BLOCK FOR CUSTOMER LOW VOLTAGE (CLASS 2) CONNECTIONS. SEE NOTE 2.
□	TERMINAL BLOCK FOR YORK CONNECTIONS ONLY
—	WIRING AND COMPONENTS BY YORK
---	OPTIONAL EQUIPMENT
---	WIRING AND/OR COMPONENTS BY OTHERS

035-15937D102
REV. NONE

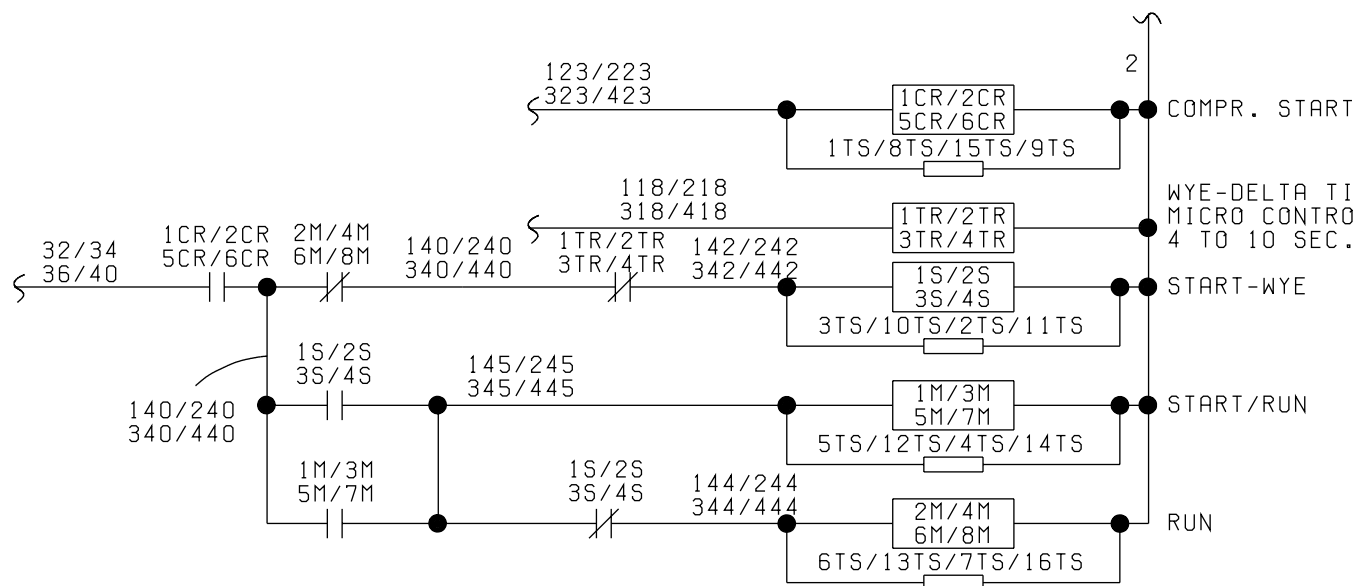
LD04177

FIG. 27 – ELEMENTARY DIAGRAM, DXST DIRECT DRIVE - CONTROL CIRCUIT

ELEMENTARY DIAGRAM DXST DIRECT DRIVE CONTROL CIRCUIT



ACROSS THE LINE START



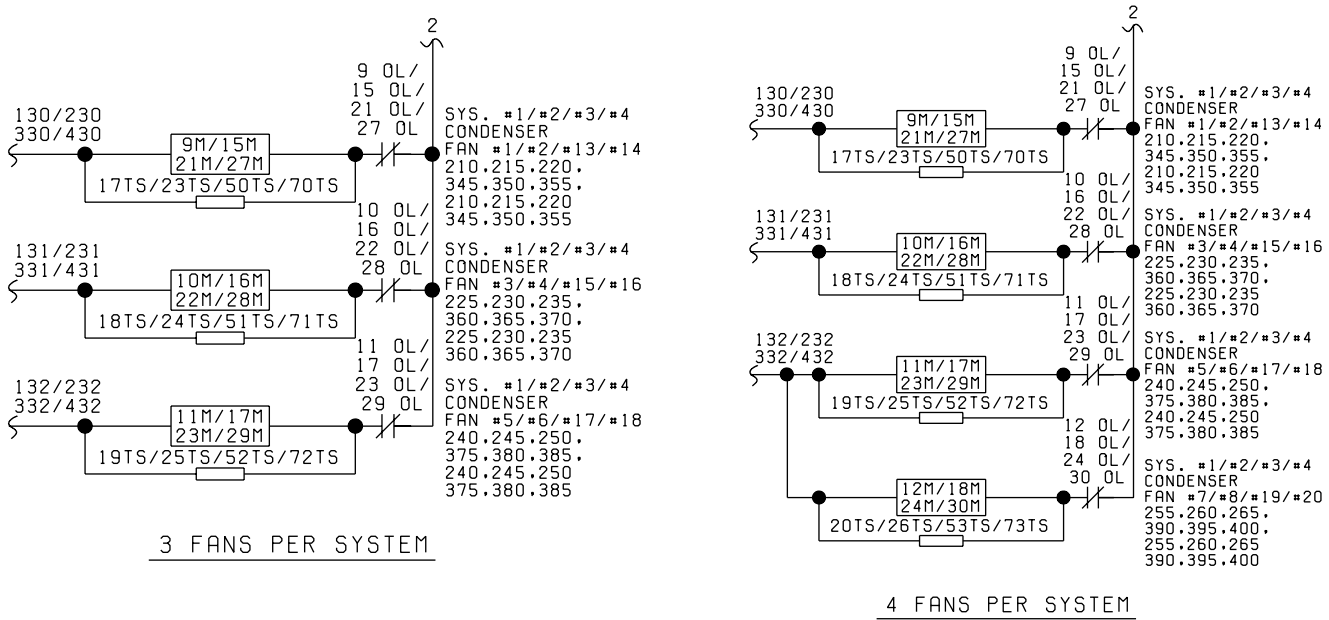
WYE DELTA START

DETAIL "B"

LD04695

FIG. 28 – ELEMENTARY DIAGRAM, DXST DIRECT DRIVE - CONTROL CIRCUIT

ELEMENTARY DIAGRAM DXST DIRECT DRIVE CONTROL CIRCUIT



DETAIL "C"
SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL
FOR NUMBER OF CONDENSER FANS FOR CHILLER MODELS

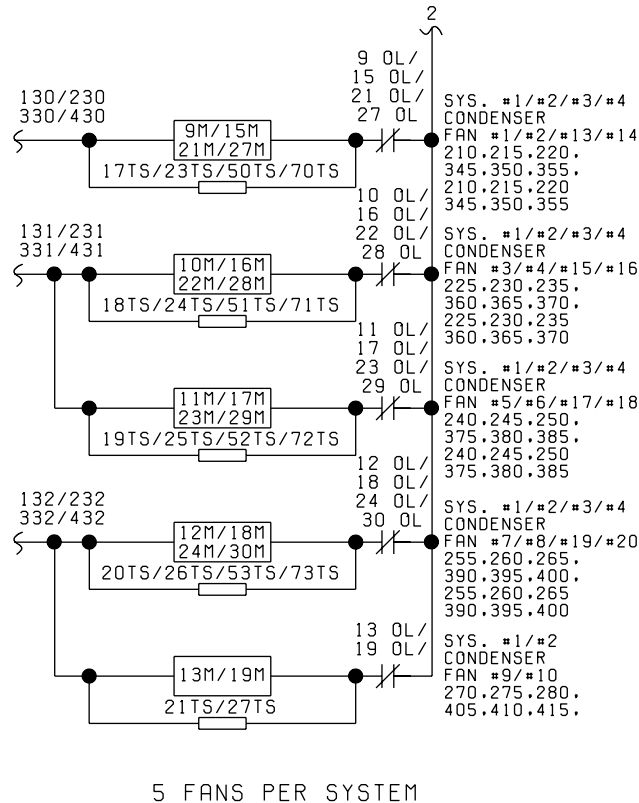
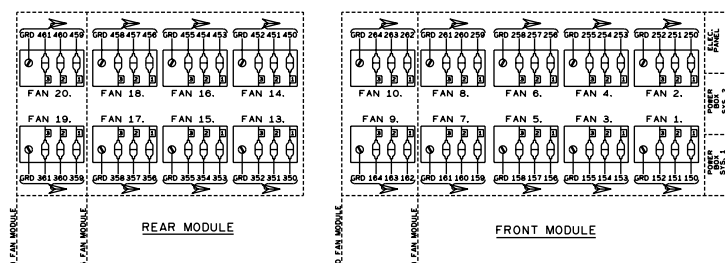
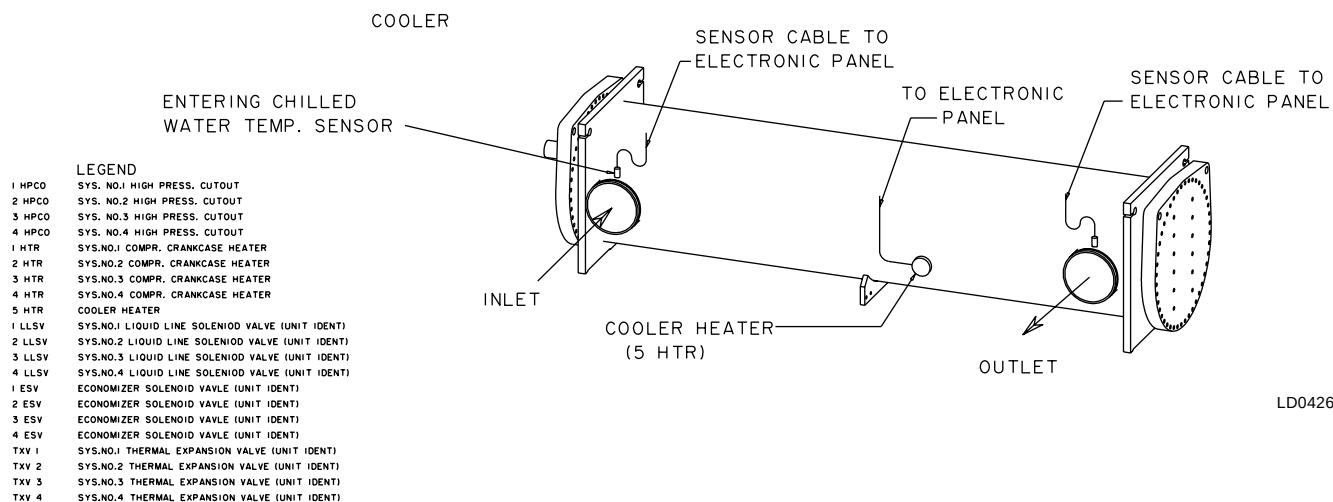
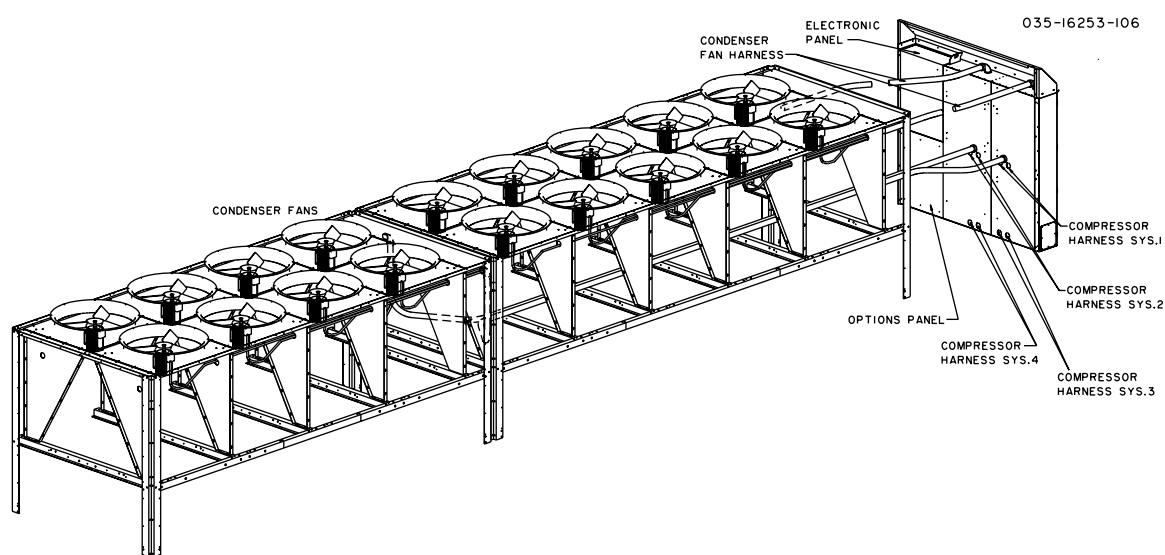


FIG. 29 – ELEMENTARY DIAGRAM, DXST DIRECT DRIVE - CONTROL CIRCUIT

CONNECTION DIAGRAM SYSTEM WIRING STANDARD & REMOTE EVAP. UNITS



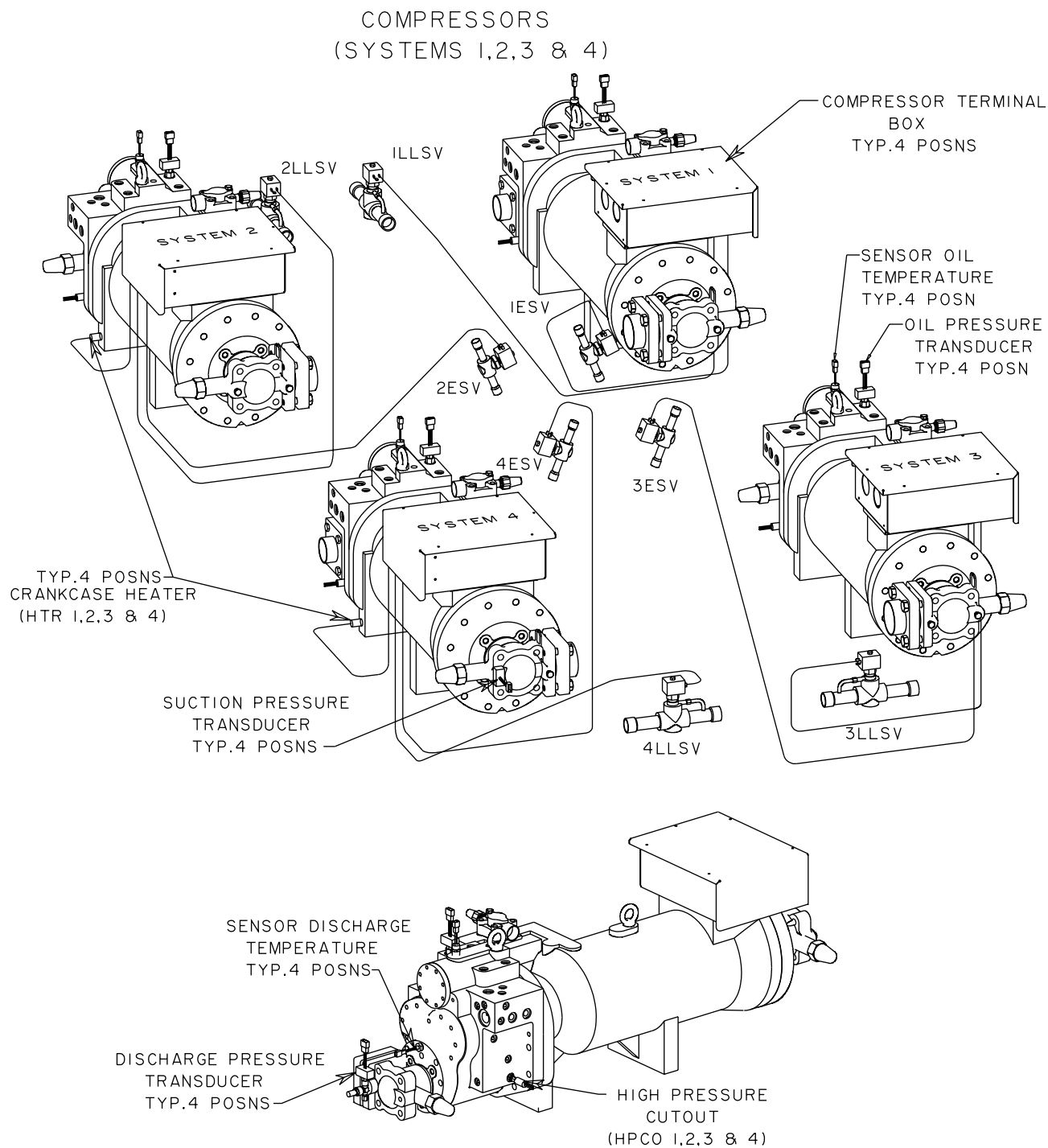
CONNECTION DIAGRAMS SYSTEM WIRING
 YCAS 0360 - 0440
 YCAS 1063 - 1263
 YCAS 1067 - 1287
 (STYLE F)
 STANDARD & REMOTE EVAP. UNITS



LD04269

FIG. 30 – CONNECTION DIAGRAM SYSTEM WIRING

CONNECTION DIAGRAM SYSTEM WIRING STANDARD & REMOTE EVAP. UNITS



LD04270

FIG. 31 – CONNECTION DIAGRAM SYSTEM WIRING

CONTROL POWER TRANSFORMER KIT
(STANDARD)

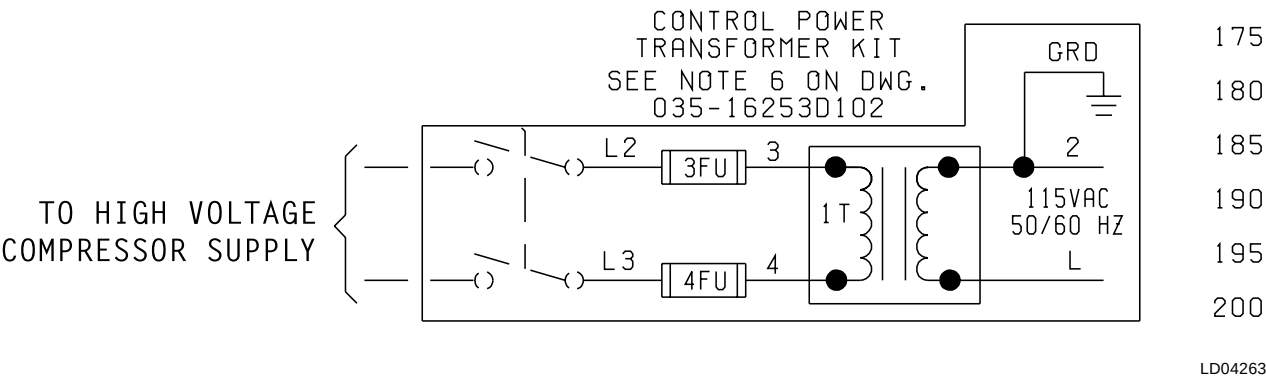


FIG. 32 – CONTROL TRANSFORMER

NOTES

NOTES

