YORK®	eco² AIR COOLED SCREW LIQUID CHILLERS MODELS YCAS STYLE 'F'	
WIRING DIAGRAM	Supersedes 201.18-W7 (700)	Form 201.18-W7 (1000)

eco²

Better ecology,
Better economy.

MODELS YCAS098 THROUGH YCAS0208
60Hz

28971AR

THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO. 1866 ISO 9000 REGISTRATION™

AN INDEPENDENT LABORATORY UL® TESTING FOR PUBLIC SAFETY

EPA energy BUILDINGS ALLY

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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.

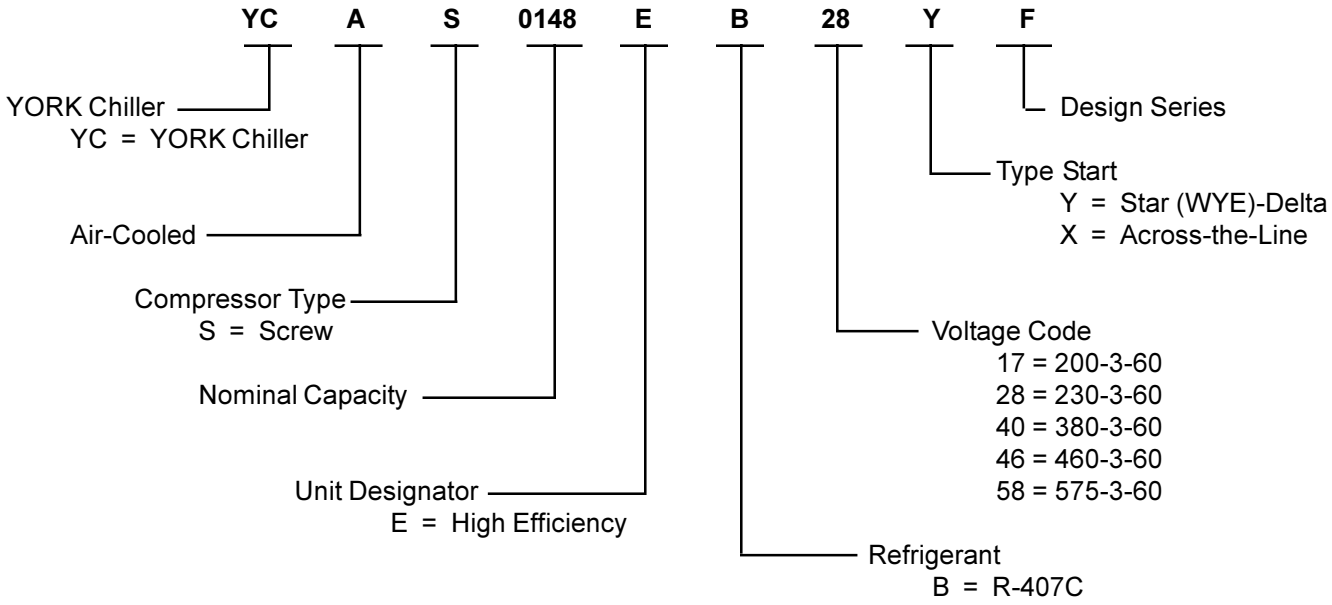
Be careful not to contact high voltage connections when installing or operating this equipment.

LOW VOLTAGE

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

NOMENCLATURE

The Model Number denotes the following characteristics of the unit:



ELECTRICAL DATA (60 Hz)

MULTIPLE POINT POWER SUPPLY CONNECTION - 2 COMPRESSOR UNITS (SEE FIG. 1)

(Two Field Provided Power Supply Circuits To The Chiller. Field Connections to Factory Provided Terminal Block (Std), Disconnects (Opt), or Individual System Circuit Breakers (Opt) 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			FANS[11, 12]		
		MCA[1]	MIN NF DISC SW[2, 9]	OVER-CURRENT PROTECTION MIN.[3, 5]	OVER-CURRENT PROTECTION MAX.[4, 6]	STD. TERMINAL BLOCK	OPT. NF. DISC SW.	OPT. C.B.	RLA	Y-LRA	X-LRA	QTY	FLA (EA.)	LRA (EA.)
0098EB	200	235	250	300	400	1/0 - 300	#6 - 350	(2) 3/0 - 250	168	404	1257	3	8.2	33.0
	230	206	200	250	350	1/0 - 300	#4 - 300	#6 - 350	146	354	1103	3	7.8	38.0
	380	125	150	150	200	# 2 - 1/0 *	#4 - 300	#4 - 300	89	219	681	3	4.8	23.0
	460	103	100	125	150	# 6 - 1/0	#14 - 1/0	#4 - 300	73	174	542	3	4.0	19.0
	575	83	100	100	125	# 6 - 1/0	#14 - 1/0	#14 - 1/0	59	138	431	3	3.1	15.2
0118EB	200	344	400	400	500	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	255	591	1866	3	8.2	33.0
	230	301	400	350	500	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	222	481	1518	3	7.8	38.0
	380	182	200	225	300	# 2 - 4/0	#4 - 300	#4 - 300	134	285	900	3	4.8	23.0
	460	151	150	200	250	# 2 - 4/0	#4 - 300	#4 - 300	111	228	719	3	4.0	19.0
	575	121	150	150	200	# 6 - 1/0	#4 - 300	#4 - 300	90	182	574	3	3.1	15.2
0128EB	200	324	400	400	500	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	233	591	1866	4	8.2	33.0
	230	284	400	350	450	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	203	481	1518	4	7.8	38.0
	380	172	200	250	250	# 2 - 4/0	#4 - 300	#4 - 300	122	285	900	4	4.8	23.0
	460	143	150	175	225	# 2 - 4/0	#4 - 300	#4 - 300	101	228	719	4	4.0	19.0
	575	113	150	150	175	# 6 - 1/0	#4 - 300	#4 - 300	81	182	574	4	3.1	15.2
0138EB	200	323	400	400	500	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	232	591	1866	4	8.2	33.0
	230	284	400	350	450	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	202	481	1518	4	7.8	38.0
	380	172	200	225	250	# 2 - 4/0	#4 - 300	#4 - 300	122	285	900	4	4.8	23.0
	460	142	150	175	225	# 2 - 4/0	#4 - 300	#4 - 300	101	228	719	4	4.0	19.0
	575	113	150	150	175	# 6 - 1/0	#4 - 300	#4 - 300	81	182	574	4	3.1	15.2
0148EB	200	324	400	400	500	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	233	591	1866	4	8.2	33.0
	230	284	400	350	450	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	203	481	1518	4	7.8	38.0
	380	172	200	225	250	# 2 - 4/0	#4 - 300	#4 - 300	122	285	900	4	4.8	23.0
	460	143	150	175	225	# 2 - 4/0	#4 - 300	#4 - 300	101	228	719	4	4.0	19.0
	575	113	150	150	175	# 6 - 1/0	#4 - 300	#4 - 300	81	182	574	4	3.1	15.2
0158EB	200	433	600	600	700	(2) 1/0 - 300	(3) 2/0 - 400	(3) 2/0 - 400	320	708	2256	4	8.2	33.0
	230	379	400	450	600	(2) # 2-4/0	(2) 3/0 - 250	(3) 2/0 - 400	278	642	2045	4	7.8	38.0
	380	230	250	300	350	1/0 - 300	#6 - 350	(2) 3/0 - 250	168	343	1093	4	4.8	23.0
	460	190	200	225	300	# 2 - 4/0	#4 - 300	#4 - 300	140	280	893	4	4.0	19.0
	575	151	150	200	250	# 2 - 4/0	#4 - 300	#6 - 350	111	224	714	4	3.1	15.2
0178EB	200	433	600	600	700	(2) 1/0 - 300	(3) 2/0 - 400	(3) 2/0 - 400	320	708	2256	4	8.2	33.0
	230	378	400	450	600	(2) 1/0 - 300	(2) 3/0 - 250	(3) 2/0 - 400	278	642	2045	4	7.8	38.0
	380	230	250	300	350	1/0 - 300	#6 - 350	(2) 3/0 - 250	169	343	1093	4	4.8	23.0
	460	191	200	225	300	# 2 - 4/0	#4 - 300	#4 - 300	140	280	893	4	4.0	19.0
	575	151	150	200	250	# 2 - 4/0	#4 - 300	#6 - 350	111	224	714	4	3.1	15.2
0198EB	200	510	600	600	800	(2) 2/0 - 500	(3) 2/0 - 400	(3) 2/0 - 400	375	708	2256	5	8.2	33.0
	230	447	600	600	700	(2) 1/0 - 300	(3) 2/0 - 400	(3) 2/0 - 400	327	642	2045	5	7.8	38.0
	380	271	400	350	450	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	198	343	1093	5	4.8	23.0
	460	225	250	300	350	1/0 - 300	#6 - 350	(2) 3/0 - 250	164	280	893	5	4.0	19.0
	575	179	200	225	300	# 2 - 4/0	#6 - 350	#6 - 350	131	224	714	5	3.1	15.2
0208EB	200	510	600	700	800	(2) 2/0 - 500	(3) 2/0 - 400	(3) 2/0 - 400	376	708	2256	5	8.2	33.0
	230	447	600	600	700	(2) 1/0 - 300	(3) 2/0 - 400	(3) 2/0 - 400	326	642	2045	5	7.8	38.0
	380	271	250	350	450	2/0 - 500	#6 - 350	(2) 3/0 - 250	198	343	1093	5	4.8	23.0
	460	225	250	300	350	1/0 - 300	#6 - 350	(2) 3/0 - 250	164	280	893	5	4.0	19.0
	575	179	200	225	300	# 2 - 4/0	#6 - 350	#6 - 350	131	224	714	5	3.1	15.2

See page 11 for Electrical Data footnotes.

MODEL YCAS	VOLTS	SYSTEM #2 FIELD-SUPPLIED WIRING												
		FIELD PROVIDED POWER SUPPLY				FACTORY PROVIDED (LUGS) WIRE RANGE[7]			COMPRESSOR			FANS[11, 12]		
		MCA[1]	MIN NF DISC SW[2, 9]	OVER-CURRENT PROTECTION MIN.[3, 5]	OVER-CURRENT PROTECTION MAX.[4, 6]	STD. TERMINAL BLOCK	OPT. NF. DISC SW.	OPT. C.B.	RLA	Y-LRA	X-LRA	QTY	FLA (EA.)	LRA (EA.)
0098EB	200	235	250	300	400	1/0 - 300	#6 - 350	(2) 3/0 - 250	168	404	1257	3	8.2	33.0
	230	206	200	250	350	1/0 - 300	#4 - 300	#6 - 350	146	354	1103	3	7.8	38.0
	380	125	150	150	200	# 2 - 1/0 *	#4 - 300	#4 - 300	89	219	681	3	4.8	23.0
	460	103	100	125	150	# 6 - 1/0	#14 - 1/0	#4 - 300	73	174	542	3	4.0	19.0
	575	83	100	100	125	# 6 - 1/0	#14 - 1/0	#14 - 1/0	59	138	431	3	3.1	15.2
0118EB	200	234	250	300	400	1/0 - 300	#4 - 300	(2) 3/0 - 250	168	404	1257	3	8.2	33.0
	230	206	200	250	350	1/0 - 300	#4 - 300	#6 - 350	146	354	1103	3	7.8	38.0
	380	125	150	150	200	# 6 - 1/0	#4 - 300	#4 - 300	88	219	681	3	4.8	23.0
	460	103	100	125	150	# 6 - 1/0	#4 - 300	#4 - 300	73	174	542	3	4.0	19.0
	575	83	100	100	125	# 6 - 1/0	#14 - 1/0	#14 - 1/0	59	138	431	3	3.1	15.2
0128EB	200	232	250	300	350	1/0 - 300	#4 - 300	(2) 3/0 - 250	159	404	1257	4	8.2	33.0
	230	205	200	250	300	1/0 - 300	#4 - 300	#6 - 350	139	354	1103	4	7.8	38.0
	380	124	150	150	200	# 6 - 1/0	#4 - 300	#4 - 300	84	219	681	4	4.8	23.0
	460	102	100	125	150	# 6 - 1/0	#4 - 300	#4 - 300	69	174	542	4	4.0	19.0
	575	82	100	100	125	# 6 - 1/0	#14 - 1/0	#14 - 1/0	56	138	431	4	3.1	15.2
0138EB	200	323	400	400	500	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	232	591	1866	4	8.2	33.0
	230	284	400	350	450	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	202	481	1518	4	7.8	38.0
	380	172	200	225	250	# 2 - 4/0	#4 - 300	#4 - 300	122	285	900	4	4.8	23.0
	460	142	150	175	225	# 2 - 4/0	#4 - 300	#4 - 300	101	228	719	4	4.0	19.0
	575	113	150	150	175	# 6 - 1/0	#4 - 300	#4 - 300	81	182	574	4	3.1	15.2
0148EB	200	324	400	400	500	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	233	591	1866	4	8.2	33.0
	230	284	400	350	450	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	203	481	1518	4	7.8	38.0
	380	172	200	225	250	# 2 - 4/0	#4 - 300	#4 - 300	122	285	900	4	4.8	23.0
	460	143	150	175	225	# 2 - 4/0	#4 - 300	#4 - 300	101	228	719	4	4.0	19.0
	575	113	150	150	175	# 6 - 1/0	#4 - 300	#4 - 300	81	182	574	4	3.1	15.2
0158EB	200	324	400	400	500	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	233	591	1866	4	8.2	33.0
	230	284	400	350	450	2/0 - 500	(2) 3/0 - 250	(2) 3/0 - 250	203	481	1518	4	7.8	38.0
	380	172	200	225	250	# 2 - 4/0	#6 - 350	#4 - 300	122	285	900	4	4.8	23.0
	460	143	150	175	225	# 2 - 4/0	#4 - 300	#4 - 300	101	228	719	4	4.0	19.0
	575	114	150	150	175	# 6 - 1/0	#4 - 300	#4 - 300	81	182	574	4	3.1	15.2
0178EB	200	433	600	600	700	(2) 1/0 - 300	(3) 2/0 - 400	(3) 2/0 - 400	320	708	2256	4	8.2	33.0
	230	378	400	450	600	(2) 1/0 - 300	(2) 3/0 - 250	(3) 2/0 - 400	278	642	2045	4	7.8	38.0
	380	230	250	300	350	1/0 - 300	#6 - 350	(2) 3/0 - 250	169	343	1093	4	4.8	23.0
	460	191	200	225	300	# 2 - 4/0	#4 - 300	#4 - 300	140	280	893	4	4.0	19.0
	575	151	150	200	250	# 2 - 4/0	#4 - 300	#6 - 350	111	224	714	4	3.1	15.2
0198EB	200	412	400	500	700	(2) 2/0 - 300	(2) 3/0 - 250	(3) 2/0 - 400	297	708	2256	5	8.2	33.0
	230	361	400	450	600	(2) # 2 - 4/0	(2) 3/0 - 250	(3) 2/0 - 400	258	642	2045	5	7.8	38.0
	380	219	250	300	350	1/0 - 300	(2) 3/0 - 500	(2) 3/0 - 250	156	343	1093	5	4.8	23.0
	460	182	200	225	300	# 2 - 4/0	#6 - 350	#4 - 300	129	280	893	5	4.0	19.0
	575	144	150	175	225	# 2 - 4/0	#6 - 350	#6 - 350	103	224	714	5	3.1	15.2
0208EB	200	510	600	700	800	(2) 2/0 - 500	(3) 2/0 - 400	(3) 2/0 - 400	376	708	2256	5	8.2	33.0
	230	447	600	600	700	(2) 1/0 - 300	(3) 2/0 - 400	(3) 2/0 - 400	326	642	2045	5	7.8	38.0
	380	271	250	350	450	2/0 - 500	#6 - 350	(2) 3/0 - 250	198	343	1093	5	4.8	23.0
	460	225	250	300	350	1/0 - 300	#6 - 350	(2) 3/0 - 250	164	280	893	5	4.0	19.0
	575	179	200	225	300	# 2 - 4/0	#6 - 350	#6 - 350	131	224	714	5	3.1	15.2

ELECTRICAL DATA (60 Hz)

OPTIONAL SINGLE-POINT POWER SUPPLY WITH INDIVIDUAL SYSTEM CIRCUIT BREAKERS – 2 COMPRESSOR UNITS (SEE FIG. 2)

(One Field Provided Power Supply Circuit to the chiller. Field connections to Factory Provided Terminal Block (standard) or Non-Fused Disconnect (option) in 'Option Panel'. Individual System Circuit Breakers in each Motor Control Center[10])

CHILLER MODEL YCAS	VOLTS	FIELD-SUPPLIED WIRING					
		FIELD PROVIDED POWER SUPPLY				FACTORY PROVIDED (LUGS) WIRE RANGE [7]	
		MCA[1]	MIN NF DISC SW[2, 9]	OVER-CURRENT PROTECTION[13] MIN.[3, 5]	MAX.[4, 6]	STANDARD TERMINAL BLOCK	OPTIONAL NF DISC. SWITCH
0098EB	200	427	600	500	500	(2) 1/0 - 300	(2) 250 - 500
	230	376	400	450	500	(2) # 2 - 4/0	(2) 3/0 - 250
	380	228	250	250	300	1/0 - 300	# 6 - 350
	460	188	200	225	250	# 2 - 4/0	# 6 - 350
	575	151	200	175	200	1/0 - 300	# 6 - 350
0118EB	200	536	600	700	800	(2) 2/0 - 500	(2) 250 - 500
	230	471	600	600	700	(2) 1/0 - 300	(2) 250 - 500
	380	285	400	350	400	2/0 - 500	(2) 3/0 - 250
	460	236	250	300	350	1/0 - 300	# 6 - 350
	575	189	200	225	250	1/0 - 300	# 6 - 350
0128EB	200	516	600	600	700	(2) 2/0 - 500	(2) 250 - 500
	230	454	600	600	600	(2) 1/0 - 300	(2) 250 - 500
	380	275	400	350	350	2/0 - 500	(2) 3/0 - 250
	460	228	250	300	300	1/0 - 300	# 6 - 350
	575	182	200	225	250	1/0 - 300	# 6 - 350
0138EB	200	589	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400
	230	517	600	600	700	(2) 2/0 - 500	(2) 250 - 500
	380	313	400	350	400	2/0 - 500	(2) 3/0 - 250
	460	259	400	300	350	2/0 - 500	(2) 3/0 - 250
	575	206	250	250	250	1/0 - 300	# 6 - 350
0148EB	200	590	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400
	230	518	600	600	700	(2) 2/0 - 500	(2) 250 - 500
	380	313	400	350	400	2/0 - 500	(2) 3/0 - 250
	460	260	400	300	350	2/0 - 500	(2) 3/0 - 250
	575	207	250	225	250	1/0 - 300	# 6 - 350
0158EB	200	699	800	800	1000	(3) 1/0 - 300	(3) 2/0 - 400
	230	613	800	700	800	(2) 2/0 - 500	(3) 2/0 - 400
	380	371	400	450	500	(2) # 2 - 4/0	(2) 3/0 - 250
	460	308	400	350	400	2/0 - 500	(2) 3/0 - 250
	575	244	250	300	350	2/0 - 500	# 6 - 350
0178EB	200	786	1000	1000	1000	(3) 2/0 - 500	(4) 250 - 500
	230	688	800	800	800	(3) 1/0 - 300	(3) 2/0 - 400
	380	418	600	500	500	(2) 1/0 - 300	(2) 250 - 500
	460	347	400	400	450	(2) # 2 - 4/0	(2) 3/0 - 250
	575	275	400	350	350	2/0 - 500	(2) 3/0 - 250
0198EB	200	848	1000	1000	1200	(3) 2/0 - 500	(4) 250 - 500
	230	744	800	1000	1000	(3) 1/0 - 300	(3) 2/0 - 400
	380	451	600	600	600	(2) 1/0 - 300	(2) 250 - 500
	460	374	400	450	500	(2) # 2 - 4/0	(2) 3/0 - 250
	575	297	400	350	400	2/0 - 500	(2) 3/0 - 250
0208EB	200	927	1000	1200	1200	(3) 2/0 - 500	(4) 250 - 500
	230	812	1000	1000	1200	(3) 2/0 - 500	(4) 250 - 500
	380	493	600	600	600	(2) 1/0 - 300	(2) 250 - 500
	460	408	600	500	500	(2) 1/0 - 300	(2) 250 - 500
	575	325	400	400	400	2/0 - 500	(2) 3/0 - 250

See page 11 for Electrical Data footnotes.

MODEL YCAS	VOLTS	SYSTEM #1						SYSTEM #2					
		COMPRESSOR DATA			FAN DATA[11, 12]			COMPRESSOR DATA			FAN DATA[11, 12]		
		RLA	Y-LRA	X-LRA	QTY	FLA (EA.)	LRA (EA)	RLA	Y-LRA	X-LRA	QTY	FLA (EA)	LRA (EA)
0098EB	200	168	404	1257	3	8.2	33.0	168	404	1257	3	8.2	33.0
	230	146	354	1103	3	7.8	38.0	146	354	1103	3	7.8	38.0
	380	89	219	681	3	4.8	23.0	89	219	681	3	4.8	23.0
	460	73	174	542	3	4.0	19.0	73	174	542	3	4.0	19.0
	575	59	138	431	3	3.1	15.2	59	138	431	3	3.1	15.2
0118EB	200	255	591	1866	3	8.2	33.0	168	404	1257	3	8.2	33.0
	230	222	481	1518	3	7.8	38.0	146	354	1103	3	7.8	38.0
	380	134	285	900	3	4.8	23.0	88	219	681	3	4.8	23.0
	460	111	228	719	3	4.0	19.0	73	174	542	3	4.0	19.0
	575	90	182	574	3	3.1	15.2	59	138	431	3	3.1	15.2
0128EB	200	233	591	1866	4	8.2	33.0	159	404	1257	4	8.2	33.0
	230	203	481	1518	4	7.8	38.0	139	354	1103	4	7.8	38.0
	380	122	285	900	4	4.8	23.0	84	219	681	4	4.8	23.0
	460	101	228	719	4	4.0	19.0	69	174	542	4	4.0	19.0
	575	81	182	574	4	3.1	15.2	56	138	431	4	3.1	15.2
0138EB	200	232	591	1866	4	8.2	33.0	232	591	1866	4	8.2	33.0
	230	202	481	1518	4	7.8	38.0	202	481	1518	4	7.8	38.0
	380	122	285	900	4	4.8	23.0	122	285	900	4	4.8	23.0
	460	101	228	719	4	4.0	19.0	101	228	719	4	4.0	19.0
	575	81	182	574	4	3.1	15.2	81	182	574	4	3.1	15.2
0148EB	200	233	591	1866	4	8.2	33.0	233	591	1866	4	8.2	33.0
	230	203	481	1518	4	7.8	38.0	203	481	1518	4	7.8	38.0
	380	122	285	900	4	4.8	23.0	122	285	900	4	4.8	23.0
	460	101	228	719	4	4.0	19.0	101	228	719	4	4.0	19.0
	575	81	182	574	4	3.1	15.2	81	182	574	4	3.1	15.2
0158EB	200	320	708	2256	4	8.2	33.0	233	591	1866	4	8.2	33.0
	230	278	642	2045	4	7.8	38.0	203	481	1518	4	7.8	38.0
	380	168	343	1093	4	4.8	23.0	122	285	900	4	4.8	23.0
	460	140	280	893	4	4	19.0	101	228	719	4	4.0	19.0
	575	111	224	714	4	3.1	15.2	81	182	574	4	3.1	15.2
0178EB	200	320	708	2256	4	8.2	33.0	320	708	2256	4	8.2	33.0
	230	278	642	2045	4	7.8	38.0	278	642	2045	4	7.8	38.0
	380	169	343	1093	4	4.8	23.0	169	343	1093	4	4.8	23.0
	460	140	280	893	4	4	19.0	140	280	893	4	4.0	19.0
	575	111	224	714	4	3.1	15.2	111	224	714	4	3.1	15.2
0198EB	200	375	708	2256	5	8.2	33.0	297	708	2256	5	8.2	33.0
	230	327	642	2045	5	7.8	38.0	258	642	2045	5	7.8	38.0
	380	198	343	1093	5	4.8	23.0	156	343	1093	5	4.8	23.0
	460	164	280	893	5	4.0	19.0	129	280	893	5	4.0	19.0
	575	131	224	714	5	3.1	15.2	103	224	714	5	3.1	15.2
0208EB	200	376	708	2256	5	8.2	33.0	376	708	2256	5	8.2	33.0
	230	326	642	2045	5	7.8	38.0	326	642	2045	5	7.8	38.0
	380	198	343	1093	5	4.8	23.0	198	343	1093	5	4.8	23.0
	460	164	280	893	5	4.0	19.0	164	280	893	5	4.0	19.0
	575	131	224	714	5	3.1	15.2	131	224	714	5	3.1	15.2

ELECTRICAL DATA (60 Hz)

SINGLE-POINT POWER SUPPLY CONNECTION – 2 COMPRESSOR UNITS (SEE FIG. 3)

(One Field Provided Power Supply Circuit to the Chiller. Field connections to Factory Provided Terminal Block (Standard) or Non-Fused Disconnect (option) in the 'Options' Panel. No Internal Branch Circuit Protection (Breakers) per Motor Control Center[10])

CHILLER MODEL YCAS	VOLTS	FIELD-SUPPLIED WIRING					
		FIELD PROVIDED POWER SUPPLY				FACTORY PROVIDED (LUGS) WIRE RANGE [7]	
		MCA[1]	MIN NF DISC SW[2, 9]	OVER-CURRENT PROTECTION[13] MIN.[3, 5]	OVER-CURRENT PROTECTION[13] MAX.[4, 6]	STANDARD TERMINAL BLOCK	OPTIONAL NF DISC. SWITCH
0098EB	380	228	250	250	300	1/0 - 300	# 6 - 350
	460	188	200	225	250	# 2 - 4/0	# 6 - 350
	575	151	200	175	200	1/0 - 300	# 6 - 350
0118EB	380	285	400	350	400	2/0 - 500	(2) 3/0 - 250
	460	236	250	300	350	1/0 - 300	# 6 - 350
	575	189	200	225	250	1/0 - 300	# 6 - 350
0128EB	380	275	400	350	350	2/0 - 500	(2) 3/0 - 250
	460	228	250	300	300	1/0 - 300	# 6 - 350
	575	182	200	225	250	1/0 - 300	# 6 - 350
0138EB	380	313	400	350	400	2/0 - 500	(2) 3/0 - 250
	460	259	400	300	350	2/0 - 500	(2) 3/0 - 250
	575	206	250	250	250	1/0 - 300	# 6 - 350
0148EB	380	313	400	350	400	2/0 - 500	(2) 3/0 - 250
	460	260	400	300	350	2/0 - 500	(2) 3/0 - 250
	575	207	250	250	250	1/0 - 300	# 6 - 350
0158EB	380	371	400	450	500	(2) # 2 - 4/0	(2) 3/0 - 250
	460	308	400	350	400	2/0 - 500	(2) 3/0 - 250
	575	244	250	300	350	2/0 - 500	# 6 - 350
0178EB	380	418	600	500	500	(2) 1/0 - 300	(2) 250 - 500
	460	347	400	400	450	(2) # 2 - 4/0	(2) 3/0 - 250
	575	275	400	350	350	2/0 - 500	(2) 3/0 - 250
0198EB	380	451	600	600	600	(2) 1/0 - 300	(2) 250 - 500
	460	374	400	450	500	(2) # 2 - 4/0	(2) 3/0 - 250
	575	297	400	350	400	2/0 - 500	(2) 3/0 - 250
0208EB	380	493	600	600	600	(2) 1/0 - 300	(2) 250 - 500
	460	408	600	500	500	(2) 1/0 - 300	(2) 250 - 500
	575	325	400	350	400	2/0 - 500	(2) 3/0 - 250

See page 11 for Electrical Data footnotes.

MODEL YCAS	VOLTS	SYSTEM #1					SYSTEM #2				
		COMPRESSOR DATA		FAN DATA[11, 12]			COMPRESSOR DATA		FAN DATA[11,12]		
		RLA	X-LRA	QTY	FLA (EA.)	LRA (EA)	RLA	X-LRA	QTY	FLA (EA)	LRA (EA)
0098EB	380	89	681	3	4.8	23.0	89	681	3	4.8	23.0
	460	73	542	3	4.0	19.0	73	542	3	4.0	19.0
	575	59	431	3	3.1	15.2	59	431	3	3.1	15.2
0118EB	380	134	900	3	4.8	23.0	88	681	3	4.8	23.0
	460	111	719	3	4.0	19.0	73	542	3	4.0	19.0
	575	90	574	3	3.1	15.2	59	431	3	3.1	15.2
0128EB	380	122	900	4	4.8	23.0	84	681	4	4.8	23.0
	460	101	719	4	4.0	19.0	69	542	4	4.0	19.0
	575	81	574	4	3.1	15.2	56	431	4	3.1	15.2
0138EB	380	122	900	4	4.8	23.0	122	900	4	4.8	23.0
	460	101	719	4	4.0	19.0	101	719	4	4.0	19.0
	575	81	574	4	3.1	15.2	81	574	4	3.1	15.2
0148EB	380	122	900	4	4.8	23.0	122	900	4	4.8	23.0
	460	101	719	4	4.0	19.0	101	719	4	4.0	19.0
	575	81	574	4	3.1	15.2	81	574	4	3.1	15.2
0158EB	380	168	1093	4	4.8	23.0	122	900	4	4.8	23.0
	460	140	893	4	4.0	19.0	101	719	4	4.0	19.0
	575	111	714	4	3.1	15.2	81	574	4	3.1	15.2
0178EB	380	169	1093	4	4.8	23.0	169	1093	4	4.8	23.0
	460	140	893	4	4.0	19.0	140	893	4	4.0	19.0
	575	111	714	4	3.1	15.2	111	714	4	3.1	15.2
0198EB	380	198	1093	5	4.8	23.0	156	1093	5	4.8	23.0
	460	164	893	5	4.0	19.0	129	893	5	4.0	19.0
	575	131	714	5	3.1	15.2	103	714	5	3.1	15.2
0208EB	380	198	1093	5	4.8	23.0	198	1093	5	4.8	23.0
	460	164	893	5	4.0	19.0	164	893	5	4.0	19.0
	575	131	714	5	3.1	15.2	131	714	5	3.1	15.2

OPTIONAL SINGLE-POINT POWER SUPPLY CONNECTION TO FACTORY CIRCUIT BREAKER – 2 COMPRESSOR UNITS (SEE FIG. 4)

(One Field Provided Power Supply Circuit to the chiller. Field Connections to Factory Provided Circuit Breaker in the 'Options Panel'. No Internal Branch Circuit Protection (Breakers) per Motor Control Center[10].)

MODEL YCAS	VOLTS	FIELD SUPPLIED WIRING			SYSTEM #1					SYSTEM #2				
		MCA[1]	FACTORY SUPPLIED BREAKER		COMPRESSOR		FANS[11, 12]			COMPRESSOR		FANS[11, 12]		
			RATING[2]	WIRE RANGE[7] (LUGS)	RLA	X-LRA	QTY	FLA(ea)	LRA(ea)	RLA	X-LRA	QTY	FLA(ea)	LRA(ea)
0098EB	380	228	250	# 6 - 350	89	681	3	4.8	23.0	89	681	3	4.8	23.0
	460	188	250	# 6 - 350	73	542	3	4.0	19.0	73	542	3	4.0	19.0
	575	151	250	# 6 - 350	59	431	3	3.1	15.2	59	431	3	3.1	15.2
0118EB	380	285	400	(2) 3/0 - 250	134	900	3	4.8	23.0	88	681	3	4.8	23.0
	460	236	400	(2) 3/0 - 250	111	719	3	4.0	19.0	73	542	3	4.0	19.0
	575	189	250	# 6 - 350	90	574	3	3.1	15.2	59	431	3	3.1	15.2
0128EB	380	275	400	(2) 3/0 - 250	122	900	4	4.8	23.0	84	681	4	4.8	23.0
	460	228	400	(2) 3/0 - 250	101	719	4	4.0	19.0	69	542	4	4.0	19.0
	575	182	250	# 6 - 350	81	574	4	3.1	15.2	56	431	4	3.1	15.2
0138EB	380	313	400	(2) 3/0 - 250	122	900	4	4.8	23.0	122	900	4	4.8	23.0
	460	259	400	(2) 3/0 - 250	101	719	4	4.0	19.0	101	719	4	4.0	19.0
	575	206	250	# 6 - 350	81	574	4	3.1	15.2	81	574	4	3.1	15.2
0148EB	380	313	400	(2) 3/0 - 250	122	900	4	4.8	23.0	122	900	4	4.8	23.0
	460	260	400	(2) 3/0 - 250	101	719	4	4.0	19.0	101	719	4	4.0	19.0
	575	207	250	# 6 - 350	81	574	4	3.1	15.2	81	574	4	3.1	15.2
0158EB	380	371	600	(2) 250 - 500	168	1093	4	4.8	23.0	122	900	4	4.8	23.0
	460	308	400	(2) 3/0 - 250	140	893	4	4.0	19.0	101	719	4	4.0	19.0
	575	244	400	(2) 3/0 - 250	111	714	4	3.1	15.2	81	574	4	3.1	15.2
0178EB	380	418	600	(2) 250 - 500	169	1093	4	4.8	23.0	169	1093	4	4.8	23.0
	460	347	400	(2) 3/0 - 250	140	893	4	4.0	19.0	140	893	4	4.0	19.0
	575	275	400	(2) 3/0 - 250	111	714	4	3.1	15.2	111	714	4	3.1	15.2
0198EB	380	451	600	(2) 250 - 500	198	1093	5	4.8	23.0	156	1093	5	4.8	23.0
	460	374	600	(2) 250 - 500	164	893	5	4.0	19.0	129	893	5	4.0	19.0
	575	297	400	(2) 3/0 - 250	131	714	5	3.1	15.2	103	714	5	3.1	15.2
0208EB	380	493	600	(2) 250 - 500	198	1093	5	4.8	23.0	198	1093	5	4.8	23.0
	460	408	600	(2) 250 - 500	164	893	5	4.0	19.0	164	893	5	4.0	19.0
	575	325	400	(2) 3/0 - 250	131	714	5	3.1	15.2	131	714	5	3.1	15.2

NOTE: Wye-Delta Compressor Start not available with this option.
See page 11 for Electrical Data footnotes.

CONTROL POWER SUPPLY (UNITS WITHOUT STANDARD CONTROL CIRCUIT TRANSFORMERS)

NO. OF COMPRESSORS	CONTROL POWER SUPPLY	MCA (MAX LOAD CURRENT)	MAX DUAL ELEMENT FUSE SIZE	NON-FUSED DISCONNECT SWITCH SIZE
2	115V-1Ø	20A	20A	30A
3 or 4 (Non-CE 50/60Hz)	115V-1Ø	30A	30A	30A
3 or 4 (CE 50Hz)	115V-1Ø	25A	30A	30A

CONTROL POWER SUPPLY (UNITS WITH STANDARD CONTROL CIRCUIT TRANSFORMERS)

NO. OF COMPRESSORS	CONTROL POWER SUPPLY	MCA (MAX LOAD CURRENT)	RECOMMENDED DUAL ELEMENT FUSE SIZE	NON-FUSED DISCONNECT SWITCH SIZE
2	200V - 60Hz	12.5A	30A	——
	230V - 60Hz	10.9A	30A	——
	380V - 60Hz	6.6A	15A	——
	460V - 60Hz	5.4A	15A	——
	575V - 60Hz	4.3A	15A	——
3 or 4	380V - 60Hz	9.9A	30A	——
	460V - 60Hz	8.2A	15A	——
	575V - 60Hz	6.5A	15A	——

ELECTRICAL DATA

NOTES (pages 4 - 10)

1. MRA is Maximum Running Amps, the maximum continuous current at any operating point in the rating range. Also referred to as MCA, or Minimum Circuit Ampacity to be provided by the installer. If a Factory Mounted Control Transformer is provided, add 3 amps to the system #1 MCA values in the YCAS Tables.
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 x largest compressor RLA) + other compressor RLAs + (# fans x 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 x largest compressor RLA) + other compressor RLAs + (# fans x 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 x largest compressor RLA) + other compressor RLAs + (# fans x 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 x largest compressor RLA) + other compressor RLAs + (# fans x 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. 50Hz High Static Fans are 3.5kW each.
12. FLA for each “Low Noise Fan” motor: 380v/50Hz = 4.1A.

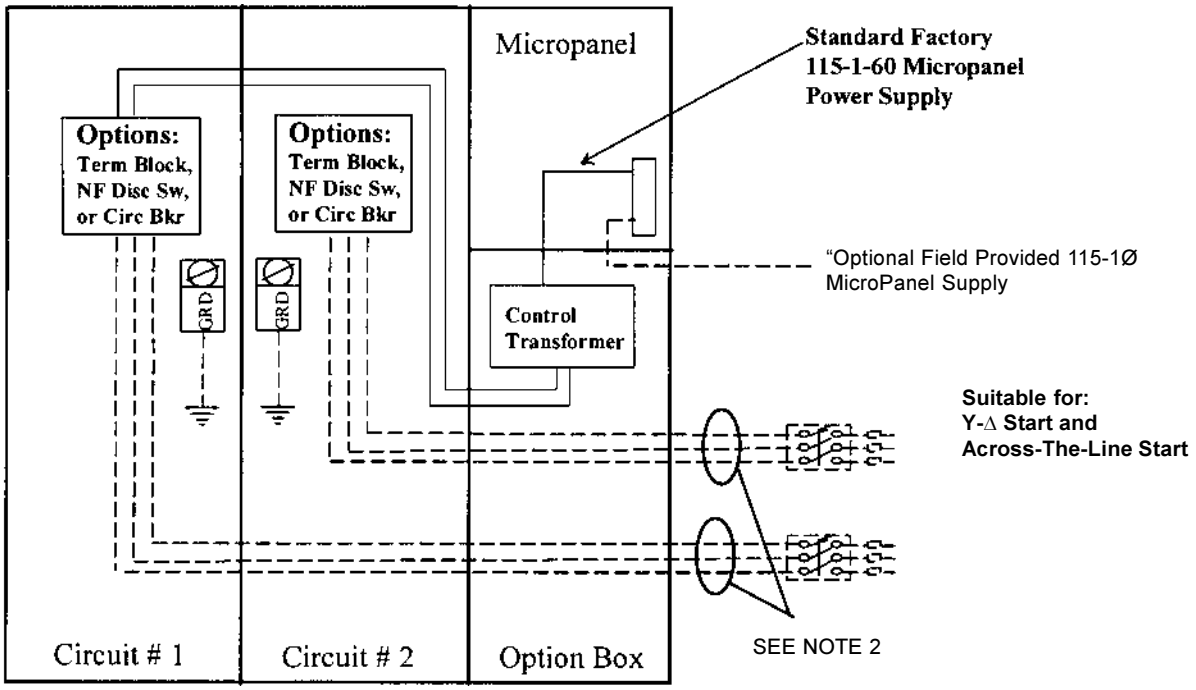
LEGEND

ACR-LINE	ACROSS THE LINE START
CB	CIRCUIT BREAKER
DE FU	DUAL ELEMENT FUSE
DISC SW	DISCONNECT SWITCH
FACT MOUNT CB	FACTORY-MOUNTED CIRCUIT BREAKER
FACT MOUNT FUSE	FACTORY-MOUNTED FUSES
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
UNIT MTD SERV SW	UNIT-MOUNTED SERVICE (NON-FUSED DISCONNECT SWITCH)
WYE-DELTA	WYE-DELTA START
XLRA	ACROSS-THE-LINE INRUSH LOCKED ROTOR AMPS
YLRA	WYE-DELTA INRUSH LOCKED ROTOR AMPS

VOLTAGE CODE
60=380/415-3-50

POWER WIRING POSSIBILITIES

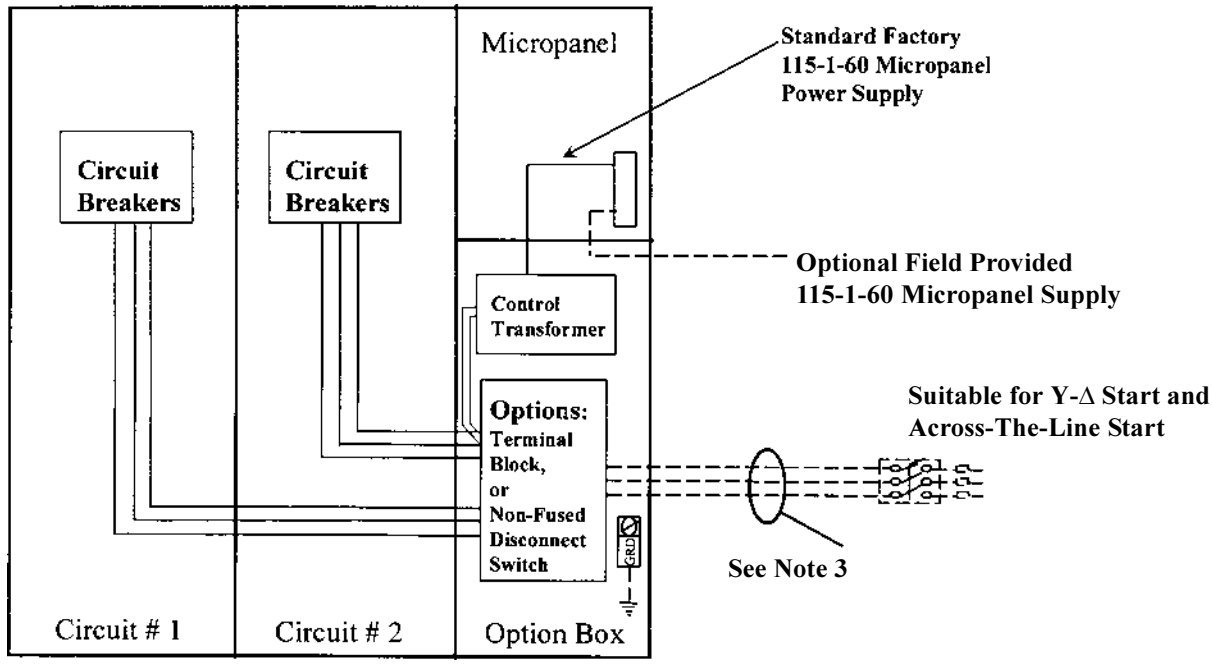
STYLE "F" 2-COMPRESSOR POWER WIRING CONNECTIONS



See page 13 for notes.

LD05548

FIG. 1 – MULTIPLE POINT POWER SUPPLY CONNECTION – STANDARD UNIT



See page 13 for notes.

LD05549

FIG. 2 – OPTIONAL SINGLE POINT POWER SUPPLY CONNECTION WITH INDIVIDUAL SYSTEM CIRCUIT BREAKERS

POWER WIRING POSSIBILITIES

STYLE "F" 2-COMPRESSOR POWER WIRING CONNECTIONS

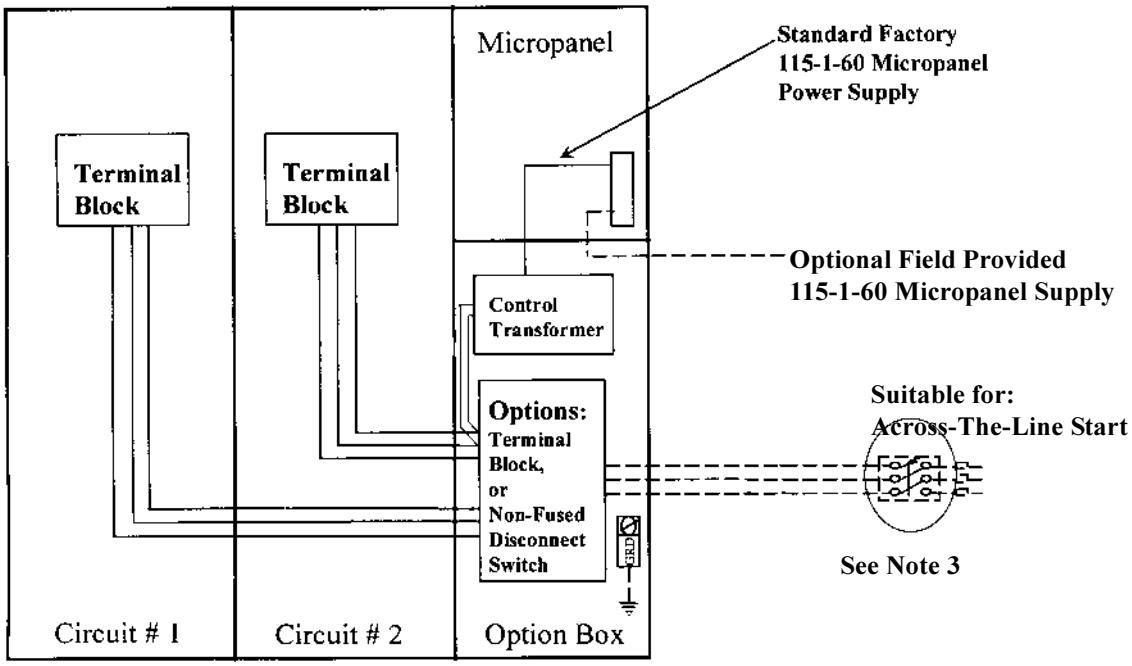


FIG. 3 – OPTIONAL SINGLE POINT POWER SUPPLY CONNECTION WITH FIELD SUPPLIED CIRCUIT PROTECTION

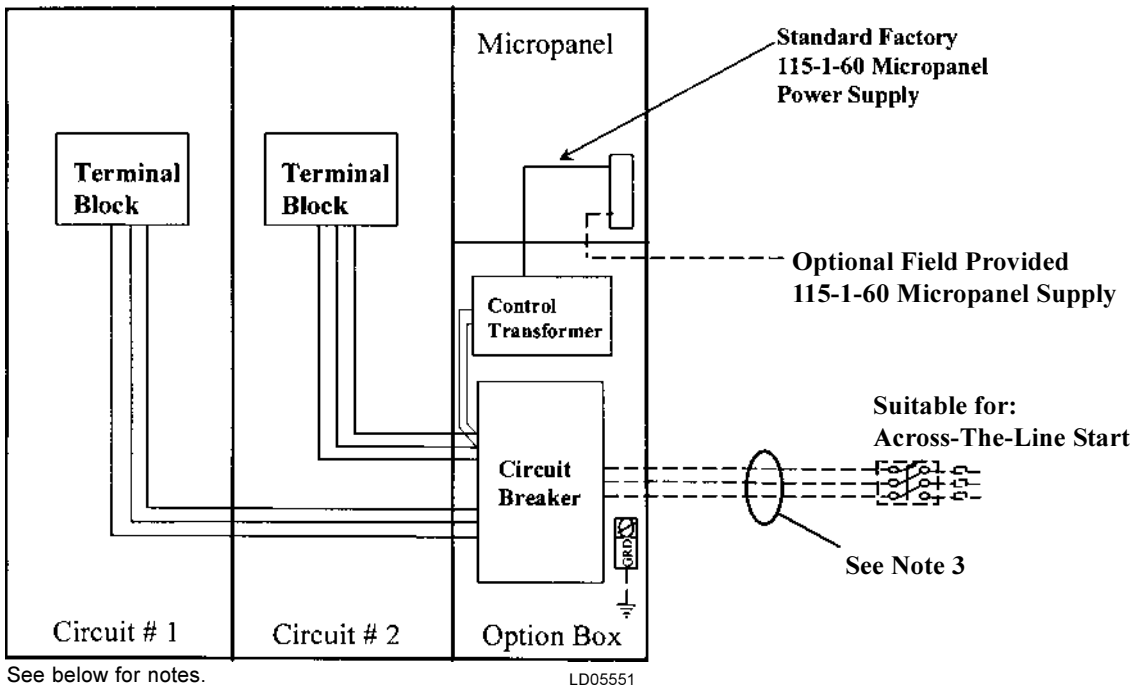


FIG. 4 – OPTIONAL SINGLE POINT POWER SUPPLY CONNECTION TO FACTORY CIRCUIT BREAKER

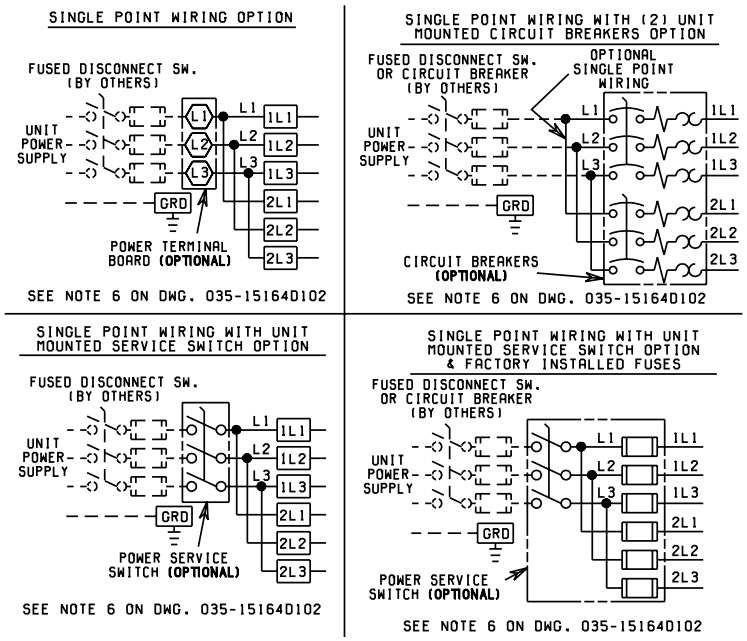
NOTES:

1. – – – – – – – – Dashed Line indicates Field Provided Wiring.
2. The above recommendations are based on the National Electric Code and using copper connectors only. Field wiring must also comply with local codes.

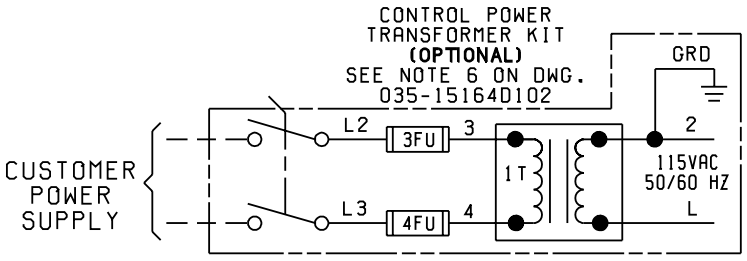
WIRING DIAGRAM
ACROSS-THE-LINE START

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. Numbers along the right side of a diagram are line identification numbers. The numbers at each line indicate the line number location of relay contacts. An unlined contact location signifies a normally closed contact. Numbers adjacent to circuit lines are the circuit identification numbers.
3. Any customer supplied contacts must be suitable for switching 24VDC. (Gold contacts recommended.) Control Wiring must not be run in the same conduit with any line voltage wiring.
4. To cycle unit on and off automatically with contact shown, install a cycling device in series with the flow switch (FSLW). See Note 3 for contact rating and wiring specifications. Also refer to cautions on the following page.
5. To stop unit (Emergency Stop) with contacts other than those shown, install the stop contact between 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 115 volts A.C.
6. 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.
7. See Installation, Operation and Maintenance Manual when optional equipment is used.
8. Control panel to be securely connected to earth ground.
9. Us 2KVA transformer in optional transformer kit unless there are optional oil separator sump heaters which necessitates using a 3KVA transformer.



LD03226



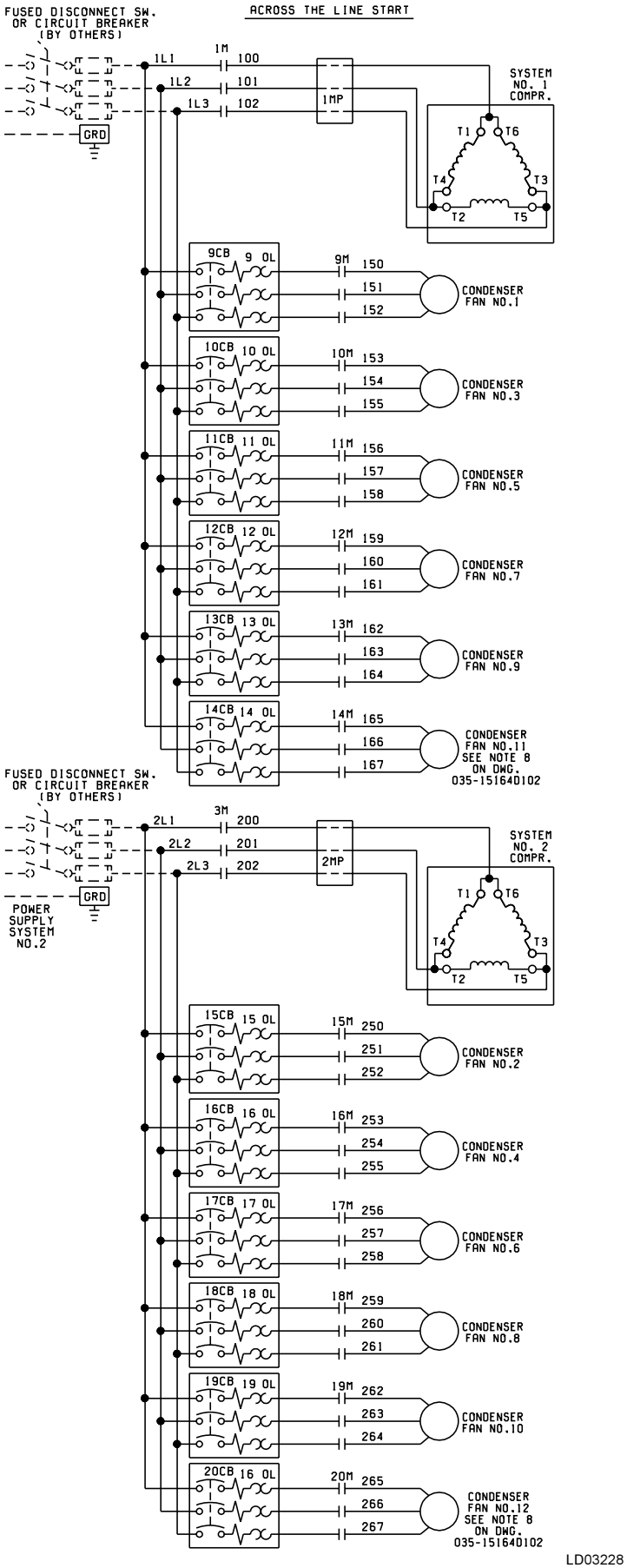
LD03227

LEGEND

T S	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

FIG. 5 – ELEMENTARY DIAGRAM – ACROSS-THE-LINE START

WIRING DIAGRAM
ACROSS-THE-LINE START



LD03228

ELEMENTARY DIAGRAM

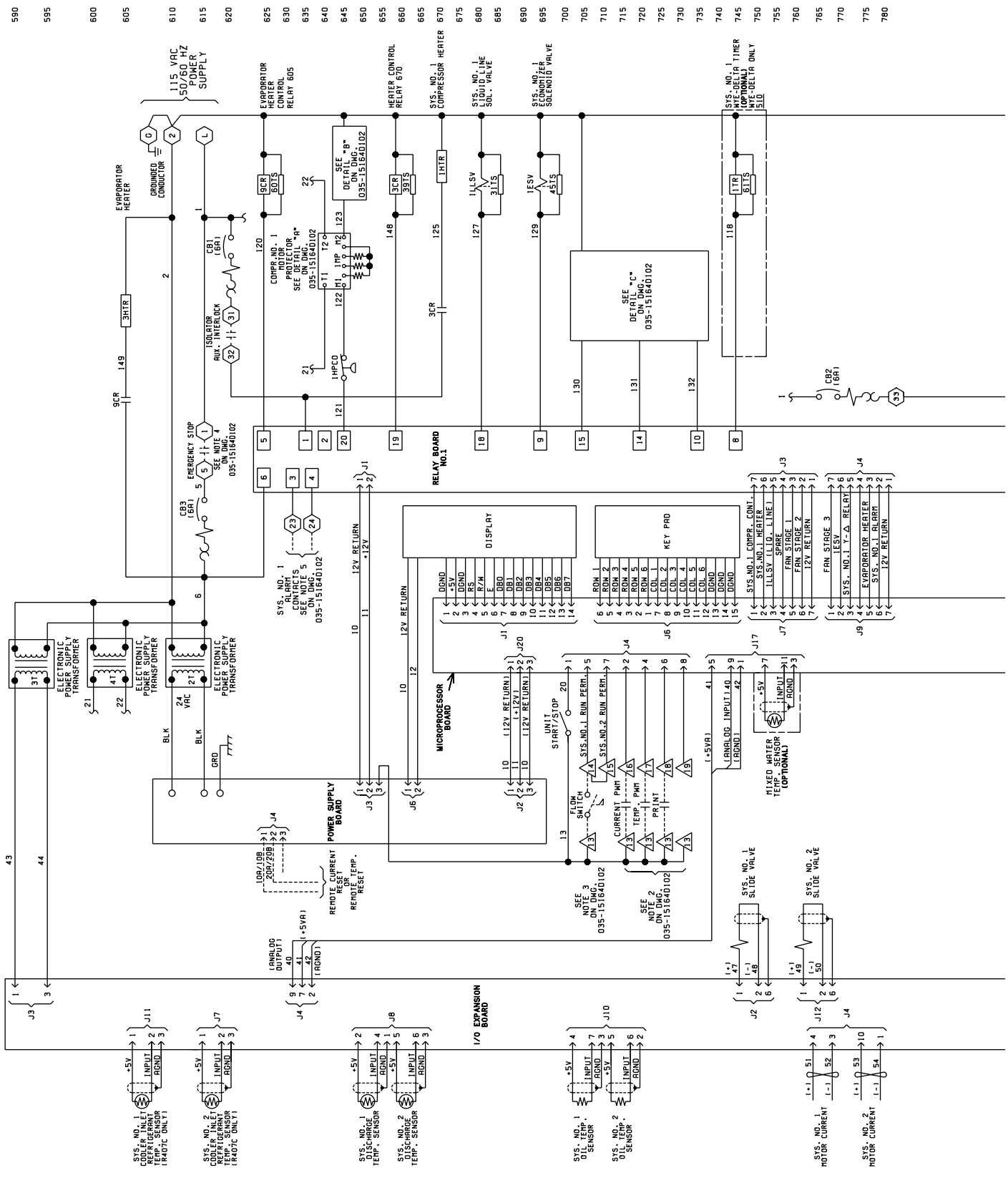
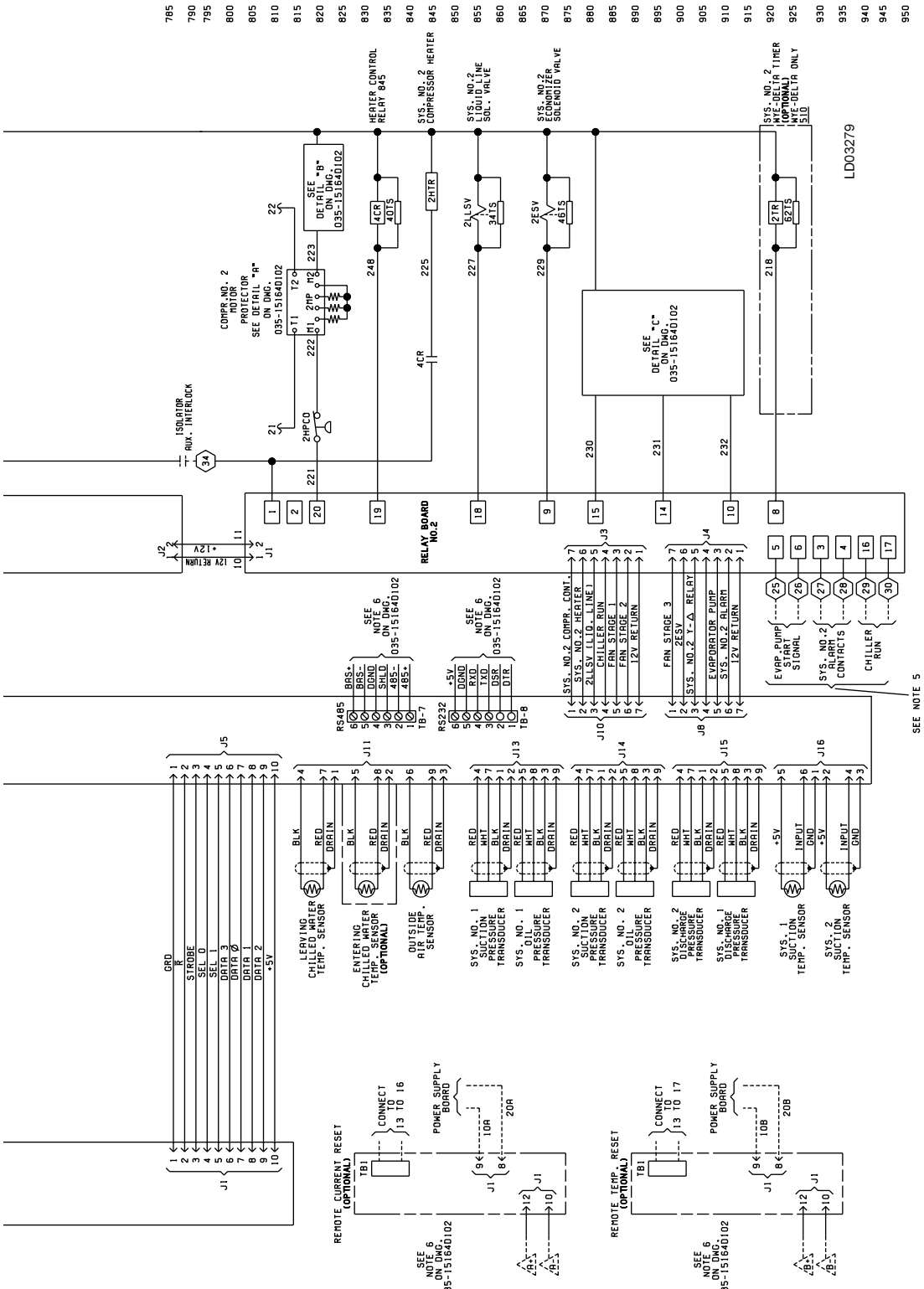


FIG. 5 – CONTINUED

ELEMENTARY DIAGRAM



CAUTION:
No Controls (relays, etc.) should be mounted in the Smart Panel enclosure or connected to power supplies in the control panel. Additionally, control wiring not connected to the Smart Panel should not be run through the cabinet. This could result in nuisance faults.

CAUTION:
Any inductive devices (relays) wired in series with the flow switch for start/stop, into the Alarm circuitry, or pilot relays for pump starters wired through motor contactor auxiliary contacts must be suppressed with YORK P/N 031-00808-000 suppressor across the relay/contactor coil.

Any contacts connected to flow switch inputs or BAS inputs on terminals 13 - 19 or TB3, or any other terminals, must be suppressed with a YORK P/N 031-00808-000 suppressor across the relay/contactor coil.

CAUTION:
Control wiring connected to the control panel should never be run in the same conduit with power wiring.

CONTROL POWER SUPPLY

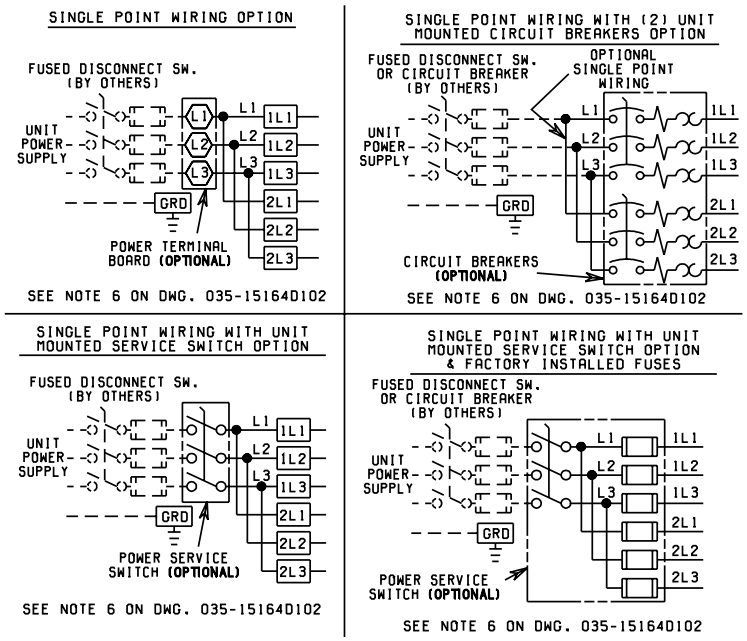
UNIT VOLTAGE		CONTROL POWER SUPPLY	MIN CIRCUIT AMP.	MAX DUAL ELEMENT FUSE SIZE	NON-FUSED DISC. SWITCH SIZE
ALL MODELS W/O TRANS.		115-1-50/60	20A	20A 250V	30A 240V
MODELS	-17	200-1-60	15A	15A 250V	30A 240V
WITH	-28	230-1-60	15A	15A 250V	30A 240V
TRANS.	-46	400-1-60	8A	8A 600V	30A 480V
*	-58	575-1-60	8A	8A 600V	30A 600V

* All primary and secondary wiring between transformer and control panel included.

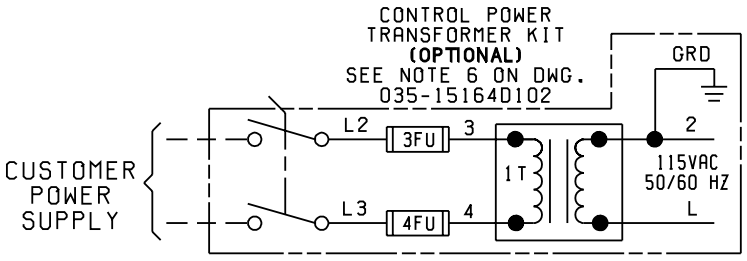
WIRING DIAGRAM
WYE-DELTA START

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. Numbers along the right side of a diagram are line identification numbers. The numbers at each line indicate the line number location of relay contacts. An unlined contact location signifies a normally closed contact. Numbers adjacent to circuit lines are the circuit identification numbers.
3. Any customer supplied contacts must be suitable for switching 24VDC. (Gold contacts recommended.) Control Wiring must not be run in the same conduit with any line voltage wiring.
4. To cycle unit on and off automatically with contact shown, install a cycling device in series with the flow switch (FSLW). See Note 3 for contact rating and wiring specifications. Also refer to cautions on the following page.
5. To stop unit (Emergency Stop) with contacts other than those shown, install the stop contact between 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 115 volts A.C.
6. 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.
7. See Installation, Operation and Maintenance Manual when optional equipment is used.
8. Control panel to be securely connected to earth ground.
9. Us 2KVA transformer in optional transformer kit unless there are optional oil separator sump heaters which necessitates using a 3KVA transformer.



LD03226



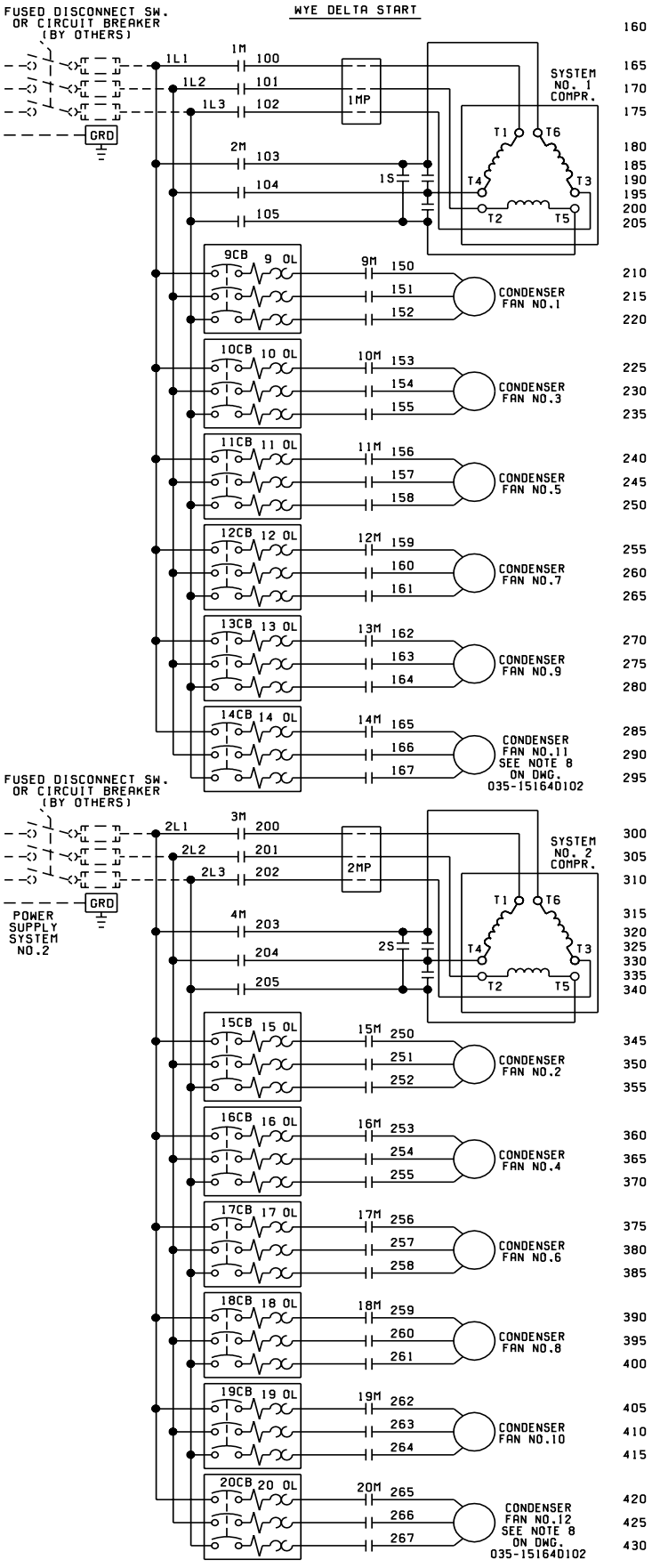
LD03227

LEGEND

T S	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

FIG. 6 – ELEMENTARY DIAGRAM – WYE-DELTA START

WIRING DIAGRAM
WYE-DELTA START



LD03229

ELEMENTARY DIAGRAM

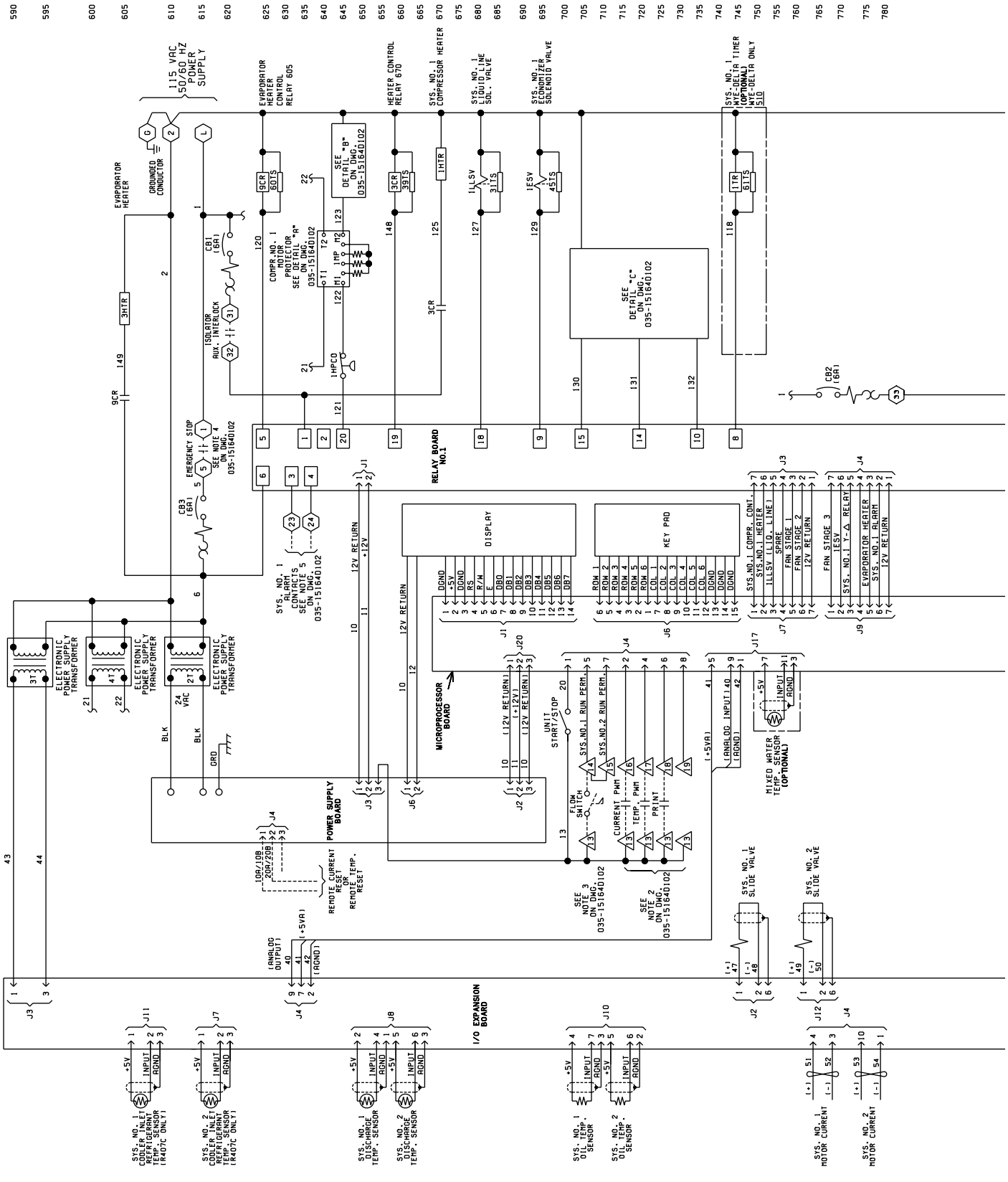
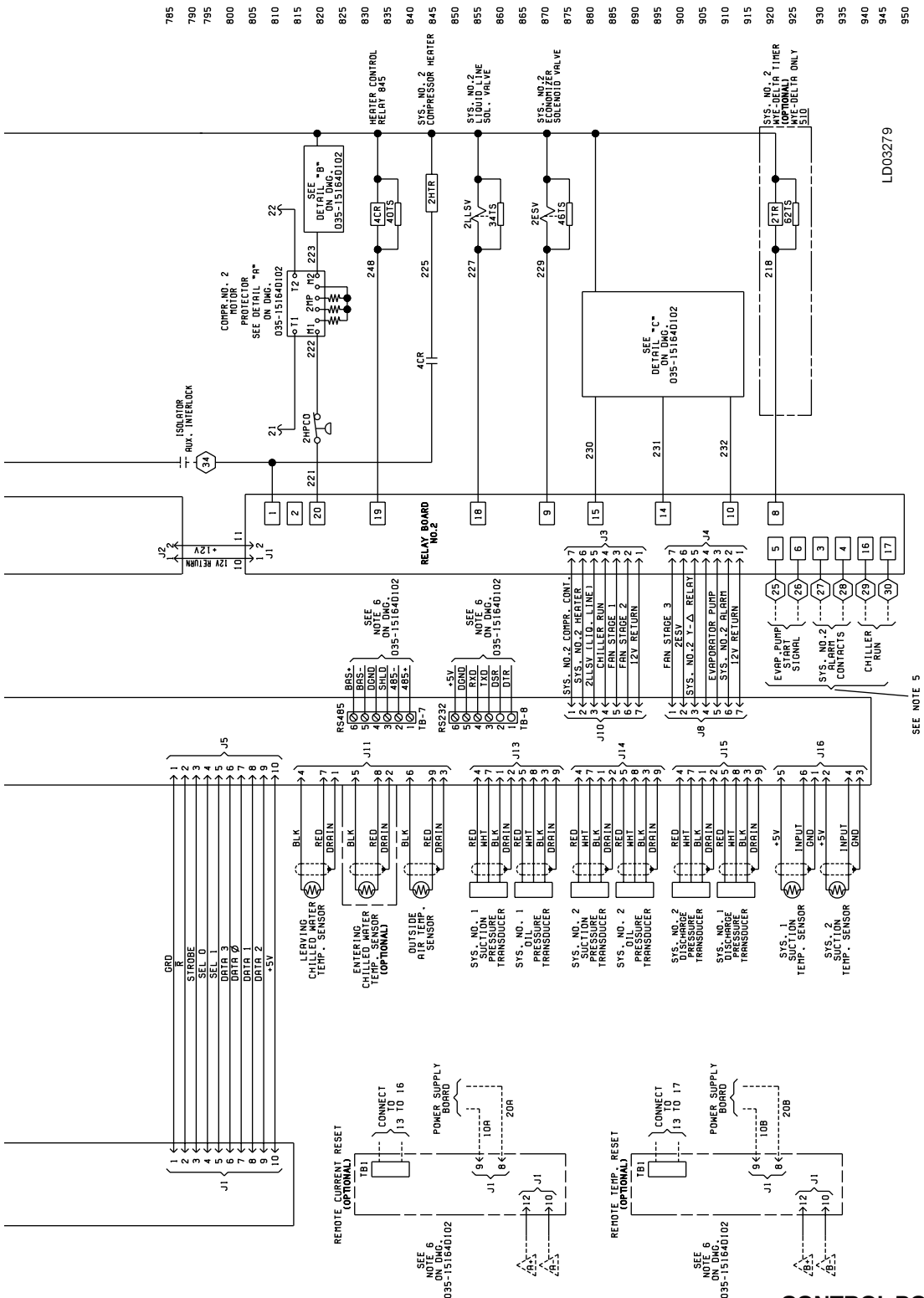


FIG. 6 – CONTINUED

ELEMENTARY DIAGRAM



CAUTION:
No Controls (relays, etc.) should be mounted in the Smart Panel enclosure or connected to power supplies in the control panel. Additionally, control wiring not connected to the Smart Panel should not be run through the cabinet. This could result in nuisance faults.

CAUTION:
Any inductive devices (relays) wired in series with the flow switch for start/stop, into the Alarm circuitry, or pilot relays for pump starters wired through motor contactor auxiliary contacts must be suppressed with YORK P/N 031-00808-000 suppressor across the relay/contactor coil.

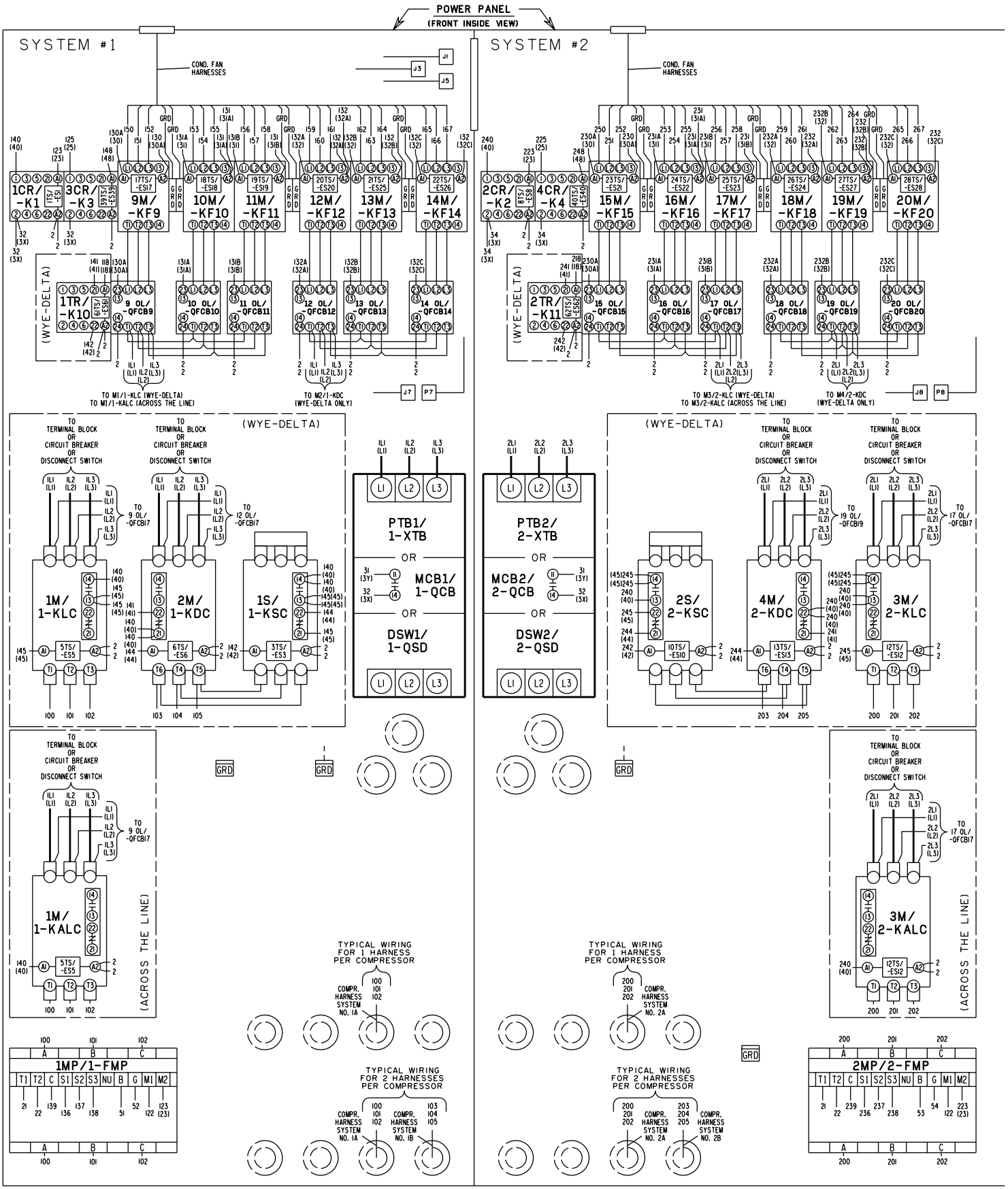
Any contacts connected to flow switch inputs or BAS inputs on terminals 13 - 19 or TB3, or any other terminals, must be suppressed with a YORK P/N 031-00808-000 suppressor across the relay/contactor coil.

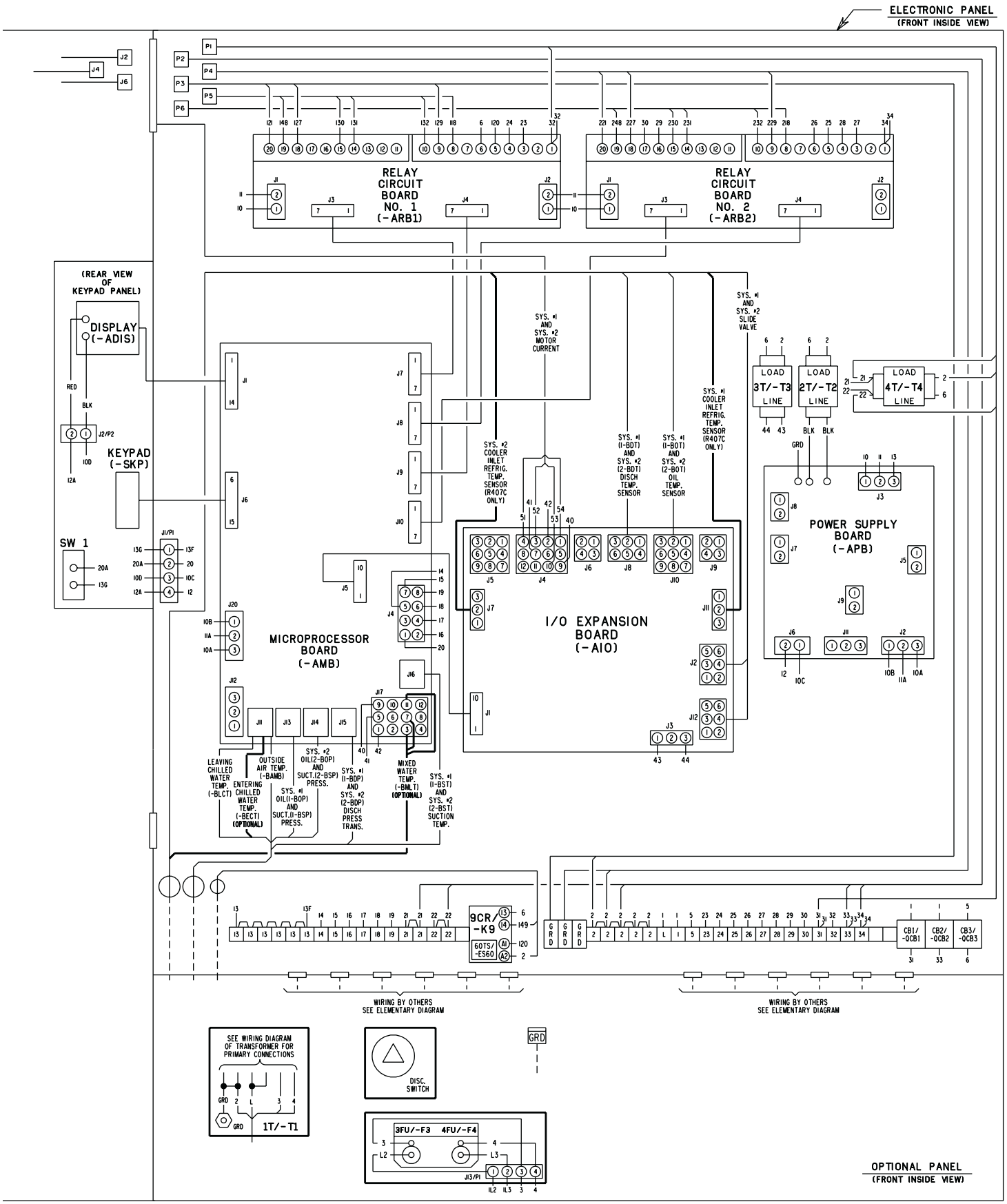
CAUTION:
Control wiring connected to the control panel should never be run in the same conduit with power wiring.

CONTROL POWER SUPPLY

UNIT VOLTAGE		CONTROL POWER SUPPLY	MIN CIRCUIT AMP.	MAX DUAL ELEMENT FUSE SIZE	NON-FUSED DISC. SWITCH SIZE
ALL MODELS W/O TRANS.		115-1-50/60	20A	20A 250V	30A 240V
MODELS	-17	200-1-60	15A	15A 250V	30A 240V
WITH	-28	230-1-60	15A	15A 250V	30A 240V
TRANS.	-46	400-1-60	8A	8A 600V	30A 480V
*	-58	575-1-60	8A	8A 600V	30A 600V

* All primary and secondary wiring between transformer and control panel included.


POWER PANEL
(FRONT INSIDE VIEW)
SYSTEM #1
SYSTEM #2
COND. FAN HARNESSES
J1
J3
J5
1CR/ -K1
3CR/ -K3
9M/ -KF9
10M/ -KF10
11M/ -KF11
12M/ -KF12
13M/ -KF13
14M/ -KF14
2CR/ -K2
4CR/ -K4
15M/ -KF15
16M/ -KF16
17M/ -KF17
18M/ -KF18
19M/ -KF19
20M/ -KF20
1TR/ -K10
2TR/ -K11
(WYE-DELTA)
TO M1/1-KLC (WYE-DELTA)
TO M1/1-KALC (ACROSS THE LINE)
TO M2/1-KDC (WYE-DELTA ONLY)
TO M3/2-KLC (WYE-DELTA)
TO M3/2-KALC (ACROSS THE LINE)
TO M4/2-KDC (WYE-DELTA ONLY)
J7
P7
J8
P8
PTB1/ 1-XTB
MCB1/ 1-QCB
DSW1/ 1-QSD
PTB2/ 2-XTB
MCB2/ 2-QCB
DSW2/ 2-QSD
OR
1M/ 1-KLC
2M/ 1-KDC
1S/ 1-KSC
2S/ 2-KSC
4M/ 2-KDC
3M/ 2-KLC
1M/ 1-KALC
3M/ 2-KALC
(ACROSS THE LINE)
TO TERMINAL BLOCK OR CIRCUIT BREAKER OR DISCONNECT SWITCH
TYPICAL WIRING FOR 1 HARNESS PER COMPRESSOR
TYPICAL WIRING FOR 2 HARNESSES PER COMPRESSOR
COMPR. HARNESS SYSTEM NO. 1A
COMPR. HARNESS SYSTEM NO. 1B
COMPR. HARNESS SYSTEM NO. 2A
COMPR. HARNESS SYSTEM NO. 2B
1MP/1-FMP
2MP/2-FMP
GRD


ELECTRONIC PANEL
(FRONT INSIDE VIEW)
RELAY CIRCUIT BOARD NO. 1 (-ARB1)
RELAY CIRCUIT BOARD NO. 2 (-ARB2)
(REAR VIEW OF KEYPAD PANEL)
DISPLAY (-ADIS)
KEYPAD (-SKP)
SW 1
MICROPROCESSOR BOARD (-AMB)
I/O EXPANSION BOARD (-AIO)
POWER SUPPLY BOARD (-APB)
SYS. #2 COOLER INLET REFRIG. TEMP. SENSOR (R407C ONLY)
SYS. #1 AND SYS. #2 MOTOR CURRENT
SYS. #1 (1-BDT) AND SYS. #2 (2-BDT) DISCH TEMP. SENSOR
SYS. #1 (1-BOT) AND SYS. #2 (2-BOT) OIL TEMP. SENSOR
SYS. #1 AND SYS. #2 SLIDE VALVE
SYS. #1 COOLER INLET REFRIG. TEMP. SENSOR (R407C ONLY)
LOAD 3T/-T3 LINE
LOAD 2T/-T2 LINE
LOAD 4T/-T4 LINE
LEAVING CHILLED WATER TEMP. (-BLCT)
ENTERING CHILLED WATER TEMP. (-BECT) (OPTIONAL)
OUTSIDE AIR TEMP. (-BAMB)
SYS. #1 OIL(1-BOP) AND SUCT.(1-BSP) PRESS.
SYS. #2 OIL(2-BOP) AND SUCT.(2-BSP) PRESS.
SYS. #1 (1-BDP) AND SYS. #2 (2-BDP) DISCH PRESS TRANS.
MIXED WATER TEMP. (-BMLT) (OPTIONAL)
SYS. #1 (1-BST) AND SYS. #2 (2-BST) SUCTION TEMP.
9CR/ -K9
60TS/ -ES60
CB1/ -OCB1
CB2/ -OCB2
CB3/ -OCB3
WIRING BY OTHERS SEE ELEMENTARY DIAGRAM
WIRING BY OTHERS SEE ELEMENTARY DIAGRAM
SEE WIRING DIAGRAM OF TRANSFORMER FOR PRIMARY CONNECTIONS
1T/-T1
DISC. SWITCH
3FU/-F3 4FU/-F4
OPTIONAL PANEL
(FRONT INSIDE VIEW)

LD03280

LEGEND

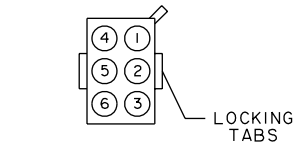
1CR THRU 4CR, 9CR/ -K1 THRU -K4, -K9	-CONTROL RELAYS
CB1, CB2, CB3/ -QCB1,-QBC2,-QCB3	-CIRCUIT BREAKERS
9CB THRU 14CB	-OVERLOAD CIRCUIT BREAKERS (SYS. #1)
15CB THRU 20CB	-OVERLOAD CIRCUIT BREAKERS (SYS. #2)
9 OL THRU 14 OL	-MOTOR OVERLOADS (SYS. #1)
15 OL THRU 20 OL	-MOTOR OVERLOADS (SYS. #2)
-QFCB9 THRU -QFCB14	-MOTOR OVERLOADS W/OVERLOAD CIRCUIT BREAKERS (SYS. #1)
-QFCB15 THRU -QFCB20	-MOTOR OVERLOADS W/OVERLOAD CIRCUIT BREAKERS (SYS. #2)
3FU, 4FU/ -F3, -F4	-TRANSFORMER FUSE (OPTIONAL)
1M, 3M/ 1-KLC OR 1-KALC, 2-KLC OR 2-KALC	-COMPRESSOR CONTACTORS
2M, 4M/ 1-KDC, 2-KDC	-COMPRESSOR CONTACTORS
1S, 2S/ 1-KSC, 2-KSC	-COMPRESSOR CONTACTORS
9M THRU 14M/ -KF9 THRU -KF14	-CONDENSER FAN CONTACTORS (SYS. #1)
15M THRU 20M/ -KF15 THRU -KF20	-CONDENSER FAN CONTACTORS (SYS. #2)
1MP/1-FMP	-MOTOR PROTECTOR (SYS. #1)
2MP/2-FMP	-MOTOR PROTECTOR (SYS. #2)
1T/-T1	-CONTROL TRANSFORMER 2KVA (OPTIONAL)
2T, 3T, 4T/ -T2, -T3, -T4	-MICRO PANEL TRANSFORMERS
1TR, 2TR/ -K10, -K11	-TIMER RELAYS
TS/-ES	-TRANSIENT SUPPRESSORS
PTB1, PTB2/ 1-XTB, 2-XTB	-POWER TERMINAL BLOCK
MCB1, MCB2/ 1-QCB, 2-QCB	-MOTOR CIRCUIT BREAKER
DSW1, DSW2/ 1-QSD, 2-QSD	-DISCONNECT SERVICE SWITCH
————	-WIRING BY YORK
— — — —	-WIRING BY OTHERS
▬▬▬▬	-OPTIONAL WIRING AND/OR COMPONENTS

CONNECTION DIAGRAM, ELEC. BOX DXST DIRECT DRIVE

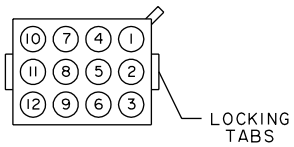
J1, J2, J3, J4, J5, J6, J7, J8, P7 & P8 — POWER PANEL

P1, P2, P3, P4, P5, & P6 — ELECTRONIC (MICRO) PANEL

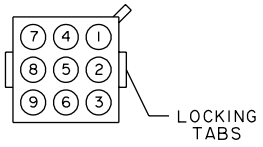
NOTE: WIRE NUMBERS IDENTIFIED IN (PARENTHESIS) INDICATE THE ACTUAL HARNESS CODE STAMPED ON THE WIRE.



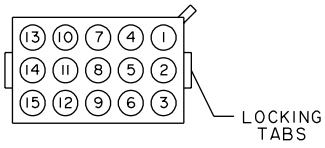
HOUSING - CONNECTOR (J1,J2,J5, & J6) WIRING END



HOUSING - CONNECTOR (J3) WIRING END



HOUSING - CONNECTOR (J7 & J8) WIRING END



HOUSING - CONNECTOR (J4) WIRING END

PLUG NO.	WIRE NO.	PLUG PIN NO.
P1	21	1
	2	2
	22	3
	31	4
	32	5

PLUG NO.	WIRE NO.	PLUG PIN NO.
P2	21	1
	2	2
	22	3
	33	4
	34	5

PLUG NO.	WIRE NO.	PLUG PIN NO.
P3	2	1
	GRD	2
	129	5
	127	6
	121	11

PLUG NO.	WIRE NO.	PLUG PIN NO.
P4	2	1
	GRD	2
	227	4
	229	5
	221	11

PLUG NO.	WIRE NO.	PLUG PIN NO.
P5	130	1
	131	2
	132	3
	148	4
	118	6

PLUG NO.	WIRE NO.	PLUG PIN NO.
P6	230	1
	231	2
	232	3
	248	4
	218	6

PLUG NO.	WIRE NO.	PLUG PIN NO.
P7	125	1
	2	2
	123	3
	140	4
	141	5
	142	6
	32	7

PLUG NO.	WIRE NO.	PLUG PIN NO.
P8	225	1
	2	2
	223	3
	240	4
	241	5
	242	6
	34	7

PLUG NO.	WIRE NO.	PLUG PIN NO.
J1	21	1
	2	2
	22	3
	3Y	4
	3X	5

PLUG NO.	WIRE NO.	PLUG PIN NO.
J2	21	1
	2	2
	22	3
	3Y	4
	3X	5

PLUG NO.	WIRE NO.	PLUG PIN NO.
J3	2	1
	GRD	2
	125	4
	129	5
	127	6
	121	11
	122	12

PLUG NO.	WIRE NO.	PLUG PIN NO.
J4	2	1
	GRD	2
	225	3
	227	4
	229	5
	221	11
	122	12

PLUG NO.	WIRE NO.	PLUG PIN NO.
J5	30	1
	31	2
	32	3
	48	4
	18	6

PLUG NO.	WIRE NO.	PLUG PIN NO.
J6	30	1
	31	2
	32	3
	48	4
	18	6

PLUG NO.	WIRE NO.	PLUG PIN NO.
J7	25	1
	2	2
	23	3
	40	4
	41	5
	42	6
	3X	7

PLUG NO.	WIRE NO.	PLUG PIN NO.
J8	25	1
	2	2
	23	3
	40	4
	41	5
	42	6
	3X	7

LD03281

NOTES:

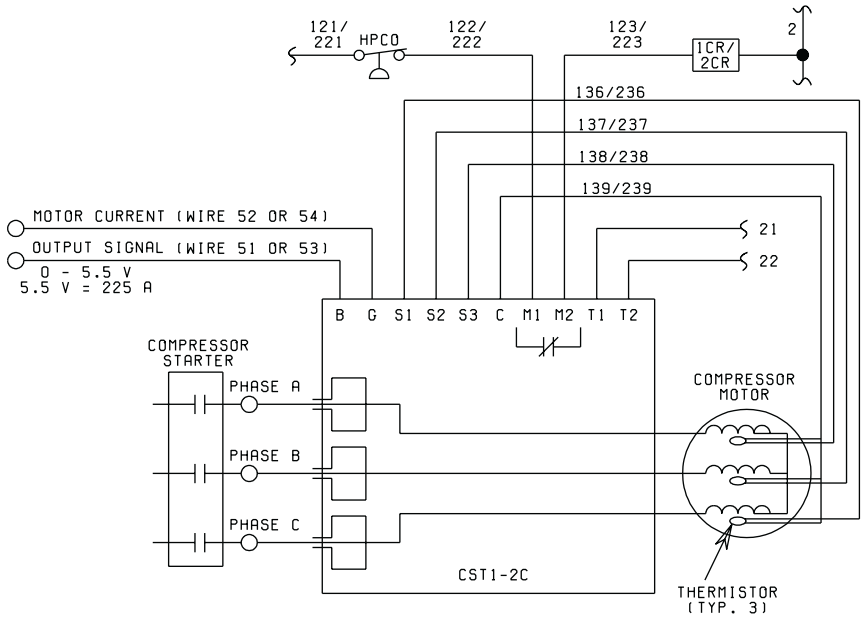
1. FIELD WIRING TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL OTHER APPLICABLE CODES AND SPECIFICATIONS.
2. CONTACTS MUST BE SUITABLE FOR SWITCHING 24VDC. (GOLD CONTACTS RECOMMENDED). WIRING SHALL NOT BE RUN IN THE SAME CONDUIT WITH ANY LINE VOLTAGE (CLASS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

LD03282

LEGEND

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

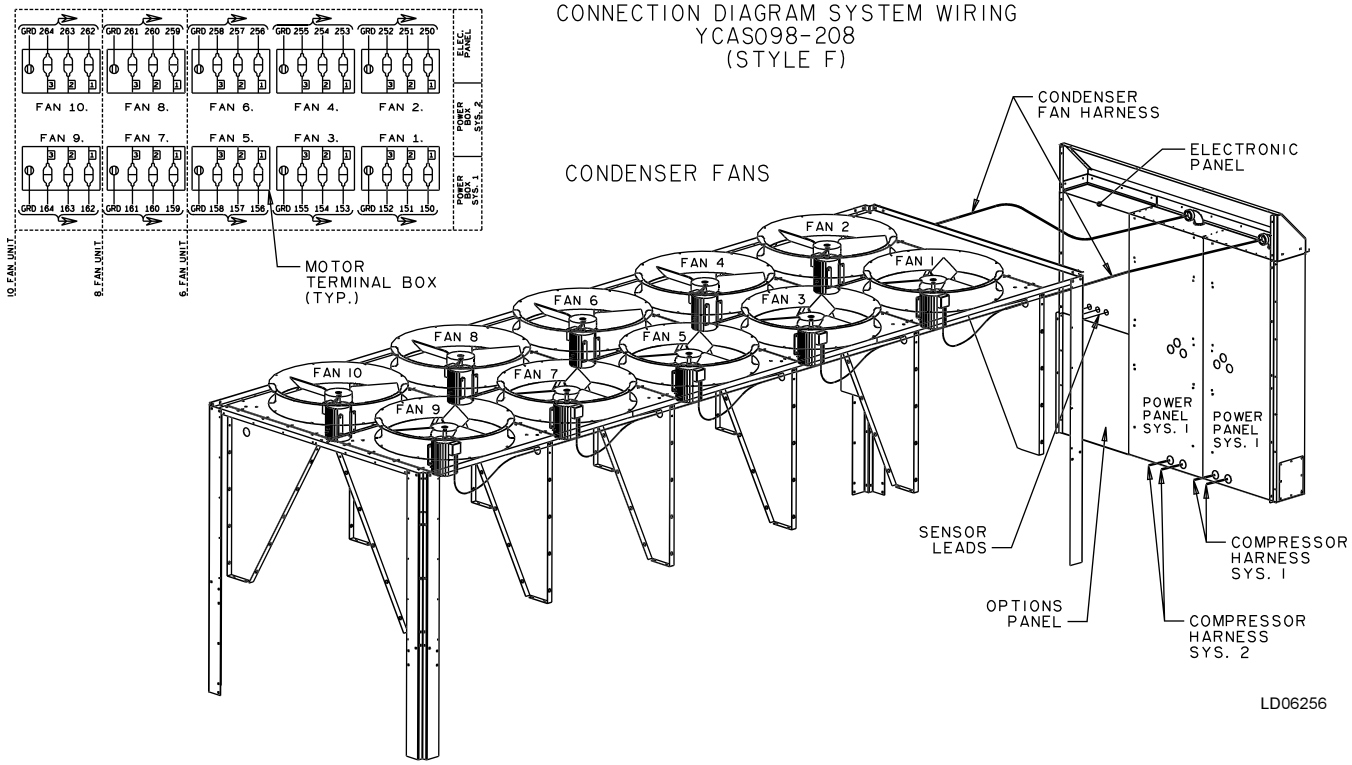
LD03283



DETAIL "A"

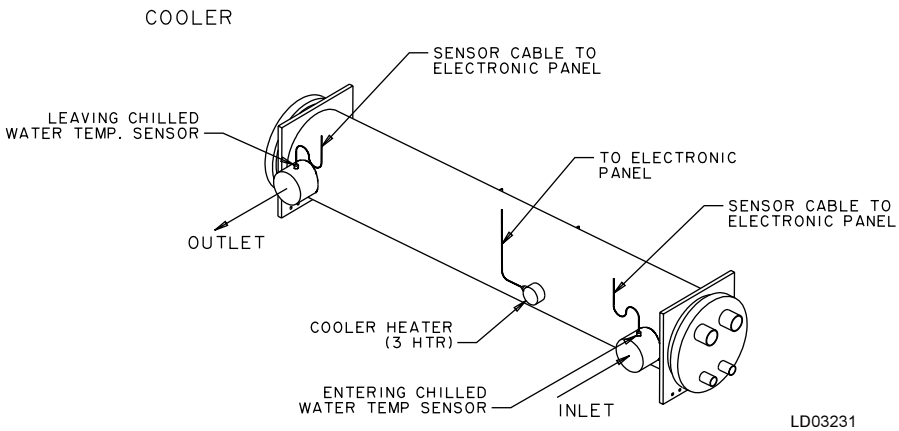
LD03284

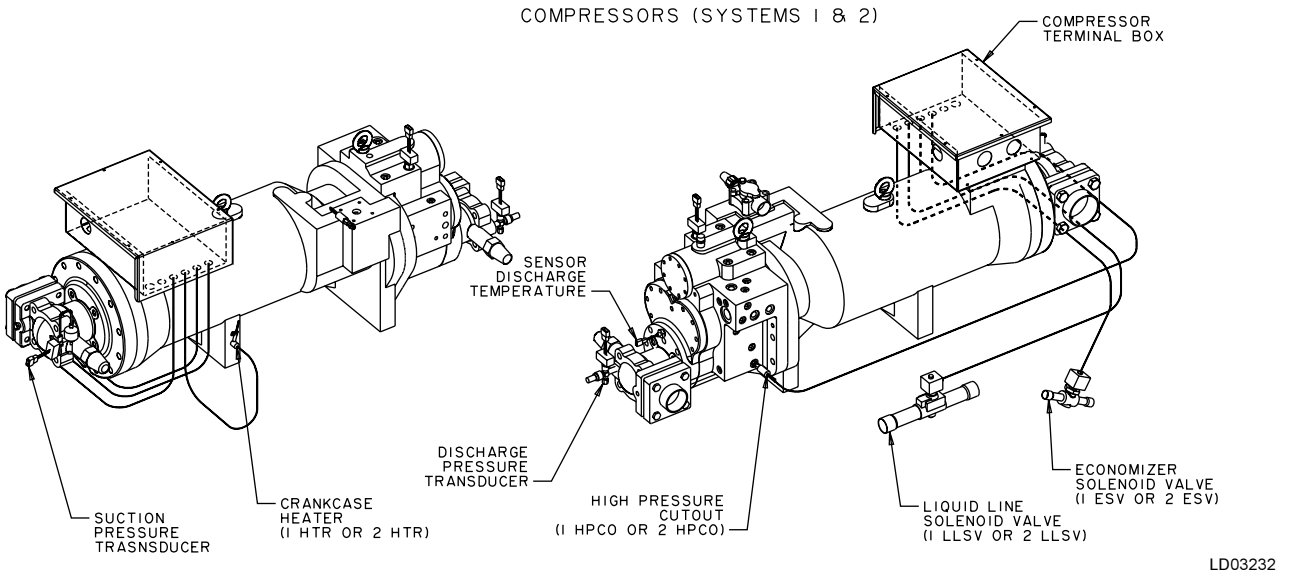
CONNECTION DIAGRAM (SYSTEM WIRING)



LEGEND

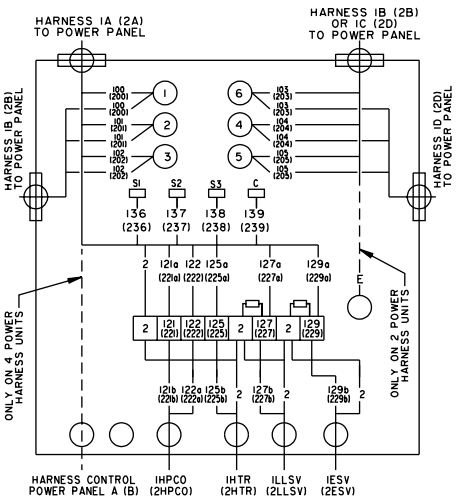
1 HPCO	SYS. No.1 HIGH PRESS. CUTOUT
2 HPCO	SYS. No.2 HIGH PRESS. CUTOUT
1 HTR	SYS. No.1 COMPR. CRANKCASE HEATER
2 HTR	SYS. No.2 COMPR. CRANKCASE HEATER
3 HTR	COOLER HEATER
1 LLSV	SYS. No.1 LIQUID LINE SOLENOID VALVE (UNIT IDENT)
2 LLSV	SYS. No.2 LIQUID LINE SOLENOID VALVE (UNIT IDENT)
1 ESV	ECONOMIZER SOLENOID VALVE (UNIT IDENT)
2 ESV	ECONOMIZER SOLENOID VALVE (UNIT IDENT)
TXV 1	SYS. No.1 THERMAL EXPANSION VALVE (UNIT IDENT)
TXV 2	SYS. No.2 THERMAL EXPANSION VALVE (UNIT IDENT)



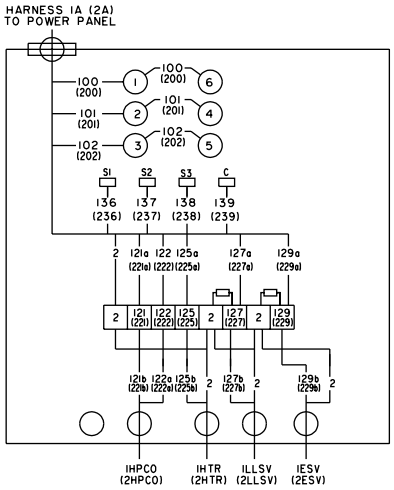


COMPRESSOR TERMINAL BOX

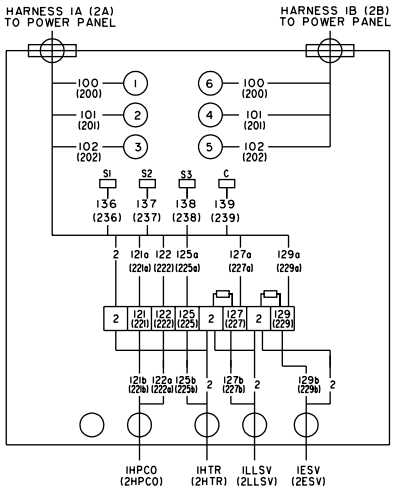
SYSTEM 1 & 2 WYE-DELTA-START
2 & 4 POWER HARNESS UNITS



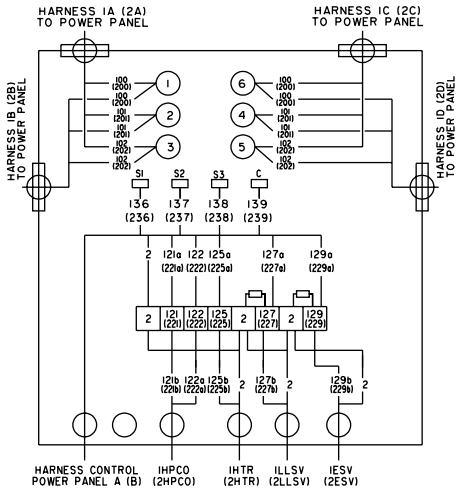
SYSTEM 1 & 2 ACROSS THE LINE
1 POWER HARNESS UNITS



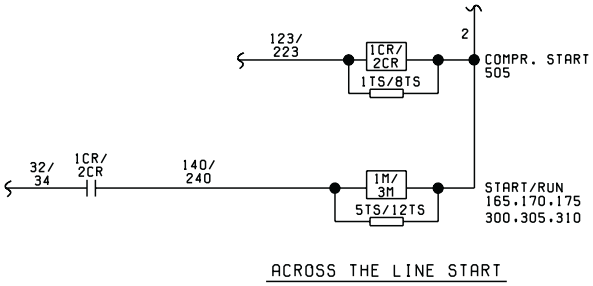
SYSTEM 1 & 2 ACROSS THE LINE
2 POWER HARNESS UNITS



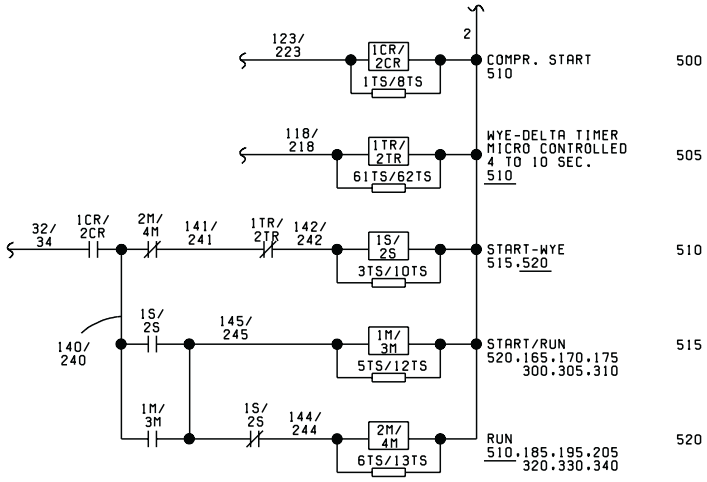
SYSTEM 1 & 2 ACROSS THE LINE
4 POWER HARNESS UNITS



LD03233



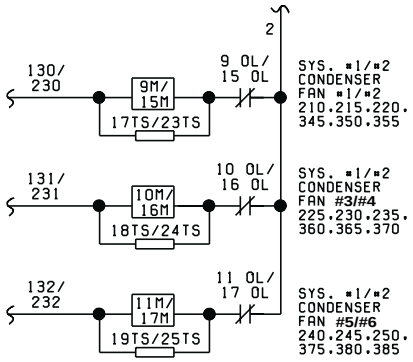
ACROSS THE LINE START



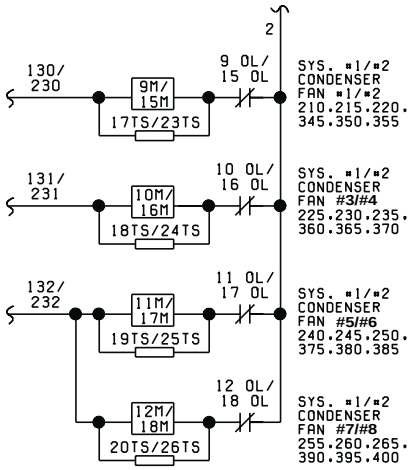
WYE DELTA START

DETAIL "B"

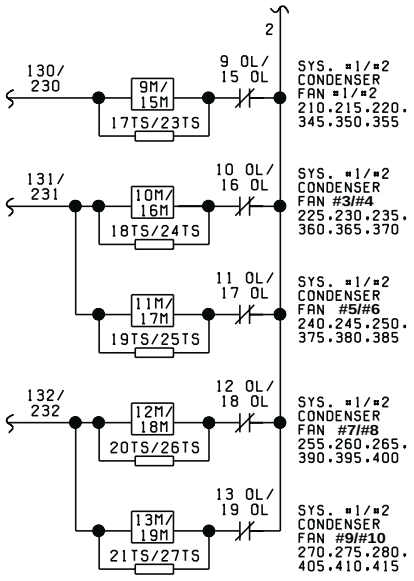
LD03286



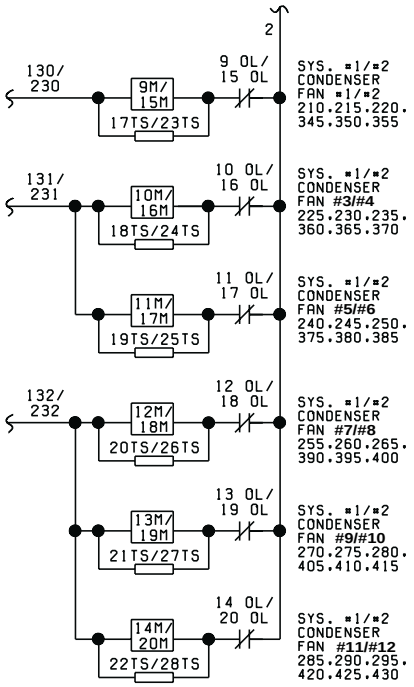
3 FANS PER SYSTEM



4 FANS PER SYSTEM



5 FANS PER SYSTEM



525
530
535
540
545
550

6 FANS PER SYSTEM

DETAIL "C"

SEE ENGINEERING GUIDE OR INSTALLATION, OPERATION AND MAINTENANCE MANUAL FOR NUMBER OF CONDENSER FANS FOR CHILLER MODEL.

LD03286

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Form 201.18-W7 (1000)
Supersedes 201.18-W7 (700)