

Wiring Diagrams

(Including Accessories)

015-035 (50/60 Hertz)

DIAGRAM INDEX

MODEL NO. 30GT		VOLTAGE		FIG. NO.	
		Main V-Ph-Hz	Control V-Ph-Hz	Schematic	Component Arrangement
015	500	208/230-3-60	115-1-60	2	3
	200	380-3-60	220-1-60	2	3
	600	460-3-60	115-1-60	2	3
	100	575-3-60	115-1-60	2	3
	800	230-3-50	230-1-50	8	9
	300	346-3-50	200/220-1-50	8	9
	900	400-3-50	230-1-50	6	7
020	500	208/230-3-60	115-1-60	10	11
	200	380-3-60	220-1-60	4	7
	600	460-3-60	115-1-60	6	5
	100	575-3-60	115-1-60	4	5
	800	230-3-50	230-1-50	18	19
	300	346-3-50	200/220-1-50	18	19
	900	400-3-50	230-1-50	12	13
025	500	208/230-3-60	115-1-60	16	17
	200	380-3-60	220-1-60	14	13
	600	460-3-60	115-1-60	12	15
	100	575-3-60	115-1-60	14	15
	800	230-3-50	230-1-50	18	19
	300	346-3-50	200/220-1-50	18	19
	900	400-3-50	230-1-50	12	13
030	500	208/230-3-60	115-1-60	16	17
	200	380-3-60	220-1-60	14	15
	600	460-3-60	115-1-60	12	13
	100	575-3-60	115-1-60	14	15
	800	230-3-50	230-1-50	18	19
	300	346-3-50	200/220-1-50	18	19
	900	400-3-50	230-1-50	12	13
035	500	208/230-3-60	115-1-60	16	17
	200	380-3-60	220-1-60	18	19
	600	460-3-60	115-1-60	12	13
	100	575-3-60	115-1-60	14	15

Accessories Page 22

Italics denote 60-Hz export units (not for sale in U S A)

These diagrams have pumpout relays and liquid solenoid valves to incorporate single pump-out control on 30G1015, 020, 025, 030, 035 units. The power schematics of the label diagrams show 06E triple voltage compressor wiring and 06E discrete voltage compressor wiring. A triple voltage compressor (06E----3--) can be applied on a 208/230-v, or 460-v, or 400-v supply system. Discrete voltage compressors are set up for 208/230-v (06F----0--), and 460-v or 400-v (06E----6--) supply systems.

NOTES:

- Compressor and fan motors thermally protected. Three phase motors protected against primary single phasing conditions (phase failure).
- Replacement of original wires must be with type 90 C wire or its equivalent.
- Line number indicates locations of contacts.
 - ## - signifies single pole double throw contacts
 - # - signifies a normally closed contact
 - # - signifies a normally open contact

NOTE. # symbol indicates line number.

4. Factory wiring is in accordance with National Electrical Code (NEC, U S A). Field modifications or additions must be in compliance with all applicable codes
5. Wiring for field power supply must be rated 75 C minimum. Use copper, copper-clad aluminum or aluminum conductors.
6. Control circuit power should be supplied from a separate source. Control circuit voltages are listed in the Diagram Index. A field-supplied disconnect with 7-amp maximum circuit protection must be provided. This supplies power for the control circuit, crankcase heater and cooler band heater. Use #14 AWG copper conductors only. Connect control circuit power to terminals **1** and **7** of TB2. Connect neutral side to terminal **7** of TB2. The disconnect must be within sight from and readily accessible from the unit, in compliance with NEC Article 440-14
7. Terminals 4, 5 and 6 of TB2 are for field external interlock connections Class 1 wiring. All field interlock contacts must have minimum rating of 360 va, 115-v, 60 Hz pilot duty. Remove wire between terminals 4 and 6 when chilled water flow switch is field-installed
8. The specially calibrated circuit breakers are designed and selected to protect hermetic compressor motors in air conditioning application. *Use only designated overload protection. DO NOT use circuit breakers to start and stop compressors, except in an emergency*
9. Compressor unloads when its unloader solenoid is energized. The switches in the water temperature controller (WTC) are shown on the diagrams in position of no demand for cooling
10. When installing chilled water pump starter auxiliary interlock contacts (CWPS), remove the black wire between terminals **5** and **6** on TB2 and connect CWPS between the terminals
11. Compressor circuit breaker (CB) is set to trip at 156% of rated load amps (RLA)
12. Wiring schematics in this publication indicate a power-on condition, but unit is *not yet started*

SAFETY CONSIDERATIONS

Installing, starting-up and servicing air conditioning equipment can be hazardous due to system pressures, electrical components and equipment location (roofs, elevated structures, etc)

Only trained, qualified installers and service mechanics should install, start up and service this equipment. Untrained personnel can perform basic maintenance functions such as cleaning coils. All other operations should be performed by trained service personnel. When working on the equipment, observe precautions in the literature and on tags, stickers and labels attached to the equipment. Follow all safety codes. Wear safety glasses and work gloves

OPERATION

IMPORTANT Before initial start-up and before restarting unit after a prolonged shutdown, compressor crankcase heater should be energized for 24 hours

Timer Functions (See Fig 1)

1. Switch A (contacts A-A1 and A-A2) provides Time Guard® function. Start of compressor is delayed

- approximately 5.5 minutes after shutdown. The minimum time between starts of compressor is 8 minutes
2. Switch B (contacts B-B1 and B-B2) starts compressor.
3. Switch D (contacts D-D1) bypasses the low-pressure switch (LPS) for 2.5 minutes at start-up for winter start control.
4. Contacts E-E1 are used when accessory oil pressure switch (OPS) is applied

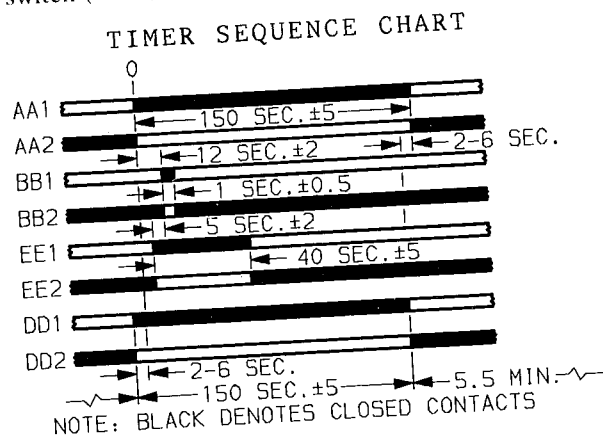


Fig. 1 — Timer Cycle

Sequence of Control — At start-up, with the water temperature controller (WTC) calling for cooling and all safety devices satisfied, the control circuit switch is closed. With minimal demand for cooling, only the first WTC switch is made. The timer motor starts, the liquid line solenoid valve opens, and condenser fan no. 1 starts. Fans no. 2 and 3 start if high side pressure is higher than 260 psig (1793 kPa). After a delay by Time Guard of 12 seconds to approximately 8 minutes depending on the timer position, the compressor starts, unloaded. As cooling demand increases, unit capacity increases as follows

UNITS WITH TWO-STEP CONTROLLER — The second WTC switch makes, the compressor loads and the unit is operating at full capacity

UNITS WITH THREE-STEP CONTROLLER — The second WTC switch makes, one compressor unloader is de-energized increasing the capacity.

The third WTC switch makes, the second compressor unloader is de-energized increasing the unit to full capacity

ALL UNITS — A pumpout relay (POR) in the control circuit is energized when WTC no. 1 switch makes. A set of normally open POR contacts close, completing a compressor control circuit which bypasses the WTC switches

As cooling demand is satisfied, WTC switches break in descending sequence. The LLS valve closes, stopping the flow of liquid refrigerant to the cooler and subsequent suction gas to the compressor. After the last WTC switch breaks, the compressor continues to run because of the WTC switch bypass. With no refrigerant returning to the compressor, low side pumpout takes place and the compressor shuts down on low-pressure control. The compressor does not restart until the WTC again calls for cooling.

HOT GAS BYPASS (factory-installed on 30GT015 50 Hz, and 30GT020 60 Hz).

On the last step of capacity control (only WTC switch no. 1 is closed), the hot gas bypass valve is energized. This allows unit to operate at a lower load condition than is provided in the normal function of the WTC, with less frequent on-off cycling of the compressor

4. Factory wiring is in accordance with National Electrical Code (NEC, U.S.A.). Field modifications or additions must be in compliance with all applicable codes.
5. Wiring for field power supply must be rated 75°C minimum. Use copper, copper-clad aluminum or aluminum conductors.
6. Control circuit power should be supplied from a separate source. Control circuit voltages are listed in the Diagram Index. A field-supplied disconnect with 7-amp maximum circuit protection must be provided. This supplies power for the control circuit, crankcase heater and cooler band heater. Use #14 AWG copper conductors only. Connect control circuit power to terminals **1** and **7** of TB2. Connect neutral side to terminal **7** of TB2. The disconnect must be within sight from and readily accessible from the unit, in compliance with NEC Article 440-14.
7. Terminals 4, 5 and 6 of TB2 are for field external interlock connections. Class 1 wiring. All field interlock contacts must have minimum rating of 360 va, 115-v, 60 Hz pilot duty. Remove wire between terminals 4 and 6 when chilled water flow switch is field-installed.
8. The specially calibrated circuit breakers are designed and selected to protect hermetic compressor motors in air conditioning application. *Use only designated overload protection. DO NOT use circuit breakers to start and stop compressors, except in an emergency.*
9. Compressor unloads when its unloader solenoid is energized. The switches in the water temperature controller (WTC) are shown on the diagrams in position of no demand for cooling.
10. When installing chilled water pump starter auxiliary interlock contacts (CWPS), remove the black wire between terminals **5** and **6** on TB2 and connect CWPS between the terminals.
11. Compressor circuit breaker (CB) is set to trip at 156% of rated load amps (RLA).
12. Wiring schematics in this publication indicate a power-on condition, but unit is *not yet started*.

SAFETY CONSIDERATIONS

Installing, starting-up and servicing air conditioning equipment can be hazardous due to system pressures, electrical components and equipment location (roofs, elevated structures, etc.).

Only trained, qualified installers and service mechanics should install, start up and service this equipment. Untrained personnel can perform basic maintenance functions such as cleaning coils. All other operations should be performed by trained service personnel. When working on the equipment, observe precautions in the literature and on tags, stickers and labels attached to the equipment. Follow all safety codes. Wear safety glasses and work gloves.

OPERATION

IMPORTANT Before initial start-up and before restarting unit after a prolonged shutdown, compressor crankcase heater should be energized for 24 hours.

Timer Functions (See Fig. 1.)

1. Switch A (contacts A-A1 and A-A2) provides Time Guard® function. Start of compressor is delayed

- approximately 5.5 minutes after shutoff. The minimum time between starts of compressor is 8 minutes.
2. Switch B (contacts B-B1 and B-B2) starts compressor.
3. Switch D (contacts D-D1) bypasses the low-pressure switch (LPS) for 2.5 minutes at start-up for winter start control.
4. Contacts E-E1 are used when accessory oil pressure switch (OPS) is applied.

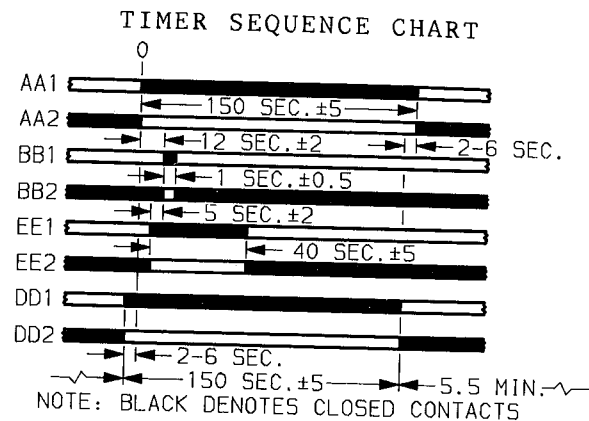


Fig. 1 — Timer Cycle

Sequence of Control — At start-up, with the water temperature controller (WTC) calling for cooling and all safety devices satisfied, the control circuit switch is closed. With minimal demand for cooling, only the first WTC switch is made. The timer motor starts, the liquid line solenoid valve opens, and condenser fan no. 1 starts. Fans no. 2 and 3 start if high side pressure is higher than 260 psig (1793 kPa). After a delay by Time Guard of 12 seconds to approximately 8 minutes depending on the timer position, the compressor starts, unloaded. As cooling demand increases, unit capacity increases as follows:

UNITS WITH TWO-STEP CONTROLLER — The second WTC switch makes, the compressor loads and the unit is operating at full capacity.

UNITS WITH THREE-STEP CONTROLLER — The second WTC switch makes, one compressor unloader is de-energized increasing the capacity.

The third WTC switch makes, the second compressor unloader is de-energized increasing the unit to full capacity.

ALL UNITS — A pumpout relay (POR) in the control circuit is energized when WTC no. 1 switch makes. A set of normally open POR contacts close, completing a compressor control circuit which bypasses the WTC switches.

As cooling demand is satisfied, WTC switches break in descending sequence. The LLS valve closes, stopping the flow of liquid refrigerant to the cooler and subsequent suction gas to the compressor. After the last WTC switch breaks, the compressor continues to run because of the WTC switch bypass. With no refrigerant returning to the compressor, low side pumpout takes place and the compressor shuts down on low-pressure control. The compressor does not restart until the WTC again calls for cooling.

HOT GAS BYPASS (factory-installed on 30GT015 50 Hz, and 30GT020 60 Hz).

On the last step of capacity control (only WTC switch no. 1 is closed), the hot gas bypass valve is energized. This allows unit to operate at a lower load condition than is provided in the normal function of the WTC, with less frequent on-off cycling of the compressor.

Complete Unit Stoppage

CAUSES — Interruption of supplied power, open control circuit switch (SW), open chilled water flow switch (CWFS), open contacts in auxiliary interlock (CWPS), open discharge thermostat (DGT) or compressor overtemperature protection (COTP, for 30GT015 60 Hz only), open high-pressure switch (HPS), open low water temperature cutout (LWTC)

RESTART — The unit recycles and restarts automatically under Time Guard® control when power is restored, or when SW is closed or when contacts in CWFS or CWPS are closed

Stoppage by DGT or COTP, HPS or LWTC requires manual resetting of the control circuit to restart the Time Guard timer. This is done by opening and closing the control circuit switch (SW).

After Stoppage by Low-Pressure Switch (LPS)

— If LPS is not closed 2-1/2 minutes after compressor starts, the compressor stops and locks out and LPS must be closed before timer can recycle to restart the compressor

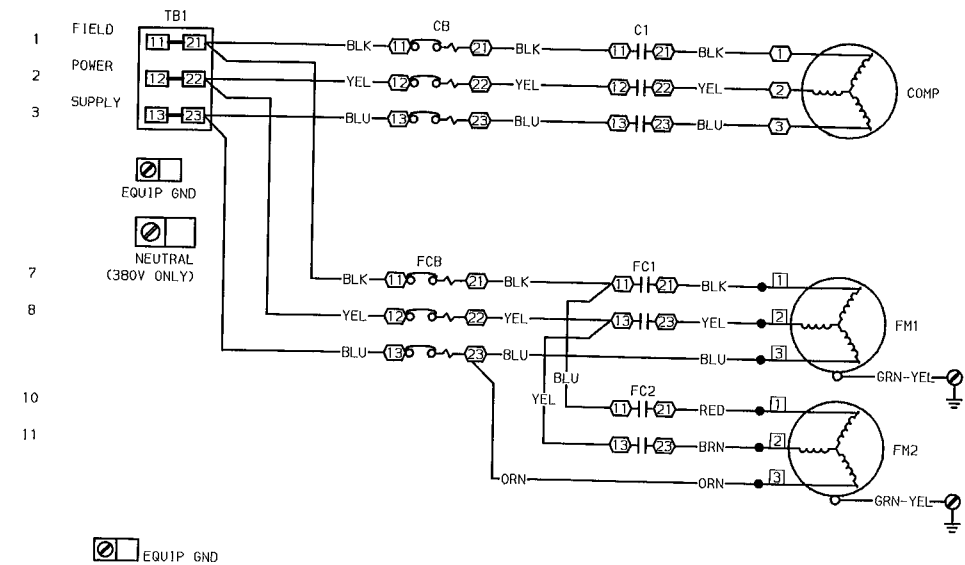
If LPS opens anytime during unit operation, compressor stops and timer starts. Compressor restarts in approximately 5.5 minutes. For 2-1/2 minutes, LPS is bypassed. If it has not closed by this time, the compressor stops and locks out. The compressor cannot restart until LPS is closed

Continued on page 22

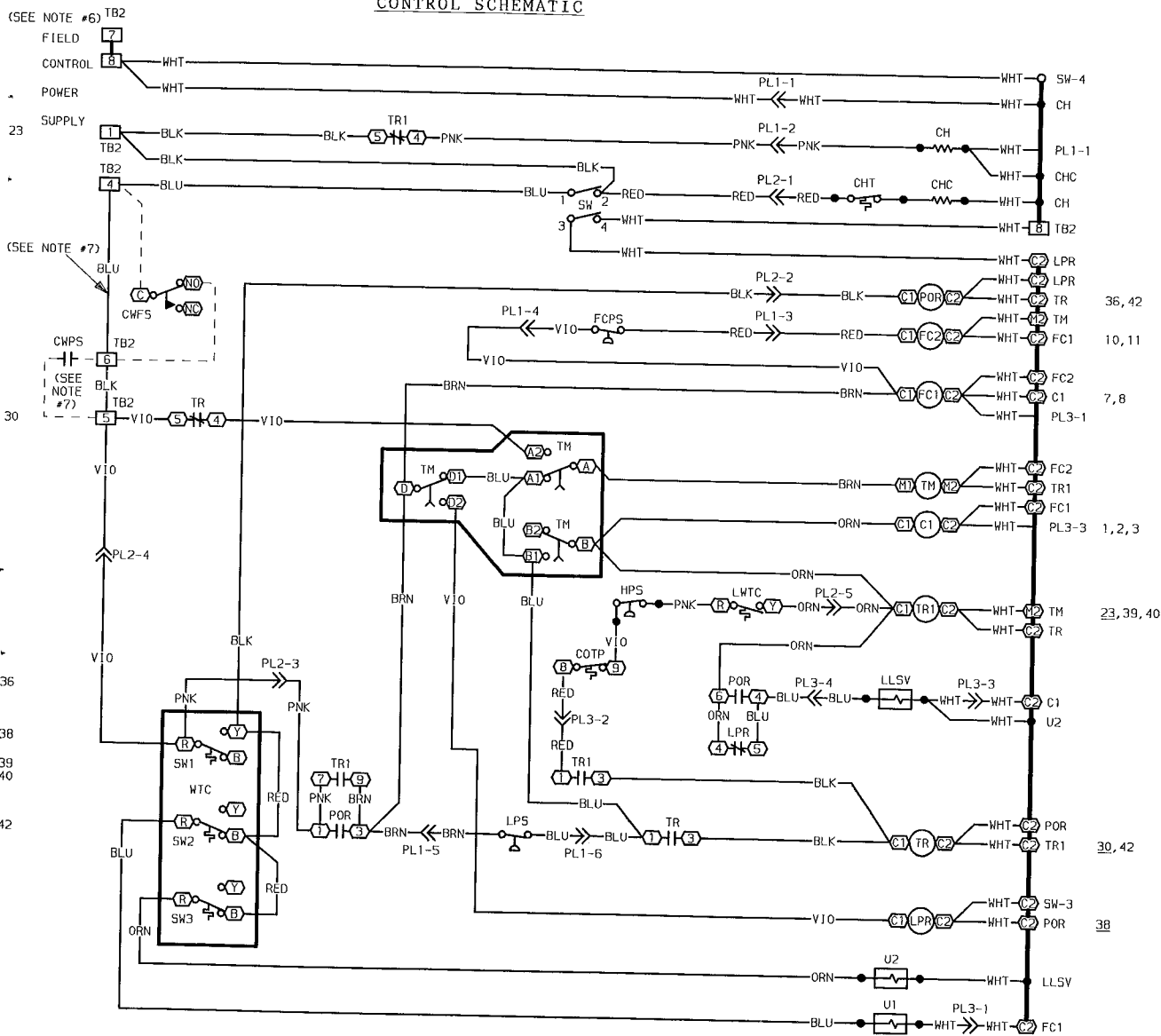
LEGEND (For Fig. 2 - 19)

ATS	— Air Temperature Switch		Plug
C	— Contactor, Compressor		Receptacle
CB	— Circuit Breaker		Terminal Block Connection
CH	— Crankcase Heater		Marked Terminal
CHC	— Cooler Heater Cable		Unmarked Terminal
CHT	— Cooler Heater Thermostat		Marked Splice
COMP	— Compressor		Unmarked Splice
COTP	— Compressor Over Temperature Protection		Factory Wire
CWFS	— Chilled Water Flow Switch		Field Control Wiring
CWPS	— Chilled Water Pump Start Aux Contact		Field Power Wiring
DGT	— Discharge Gas Thermostat		Indicates Common Potential, Does Not Represent Wiring
EQUIP	— Equipment		
FC	— Fan Contactor		
FCB	— Fan Circuit Breaker		
FCPS	— Fan Cycling Pressure Switch		
FM	— Fan Motor		
GND	— Ground		
HGS	— Hot Gas Solenoid		
HPS	— High Pressure Switch		
LLSV	— Liquid Line Solenoid Valve		
LPR	— Low Pressure Relay		
LPS	— Low Pressure Switch		
LWTC	— Low Water Temperature Cutout		
PL	— Plug Assembly		
POR	— Pumpout Relay		
SW	— Switch		
TB	— Terminal Block		
TM	— Timer Motor		
TR	— Timer Relay		
U	— Unloader		
WTC	— Water Temperature Controller		

POWER SCHEMATIC

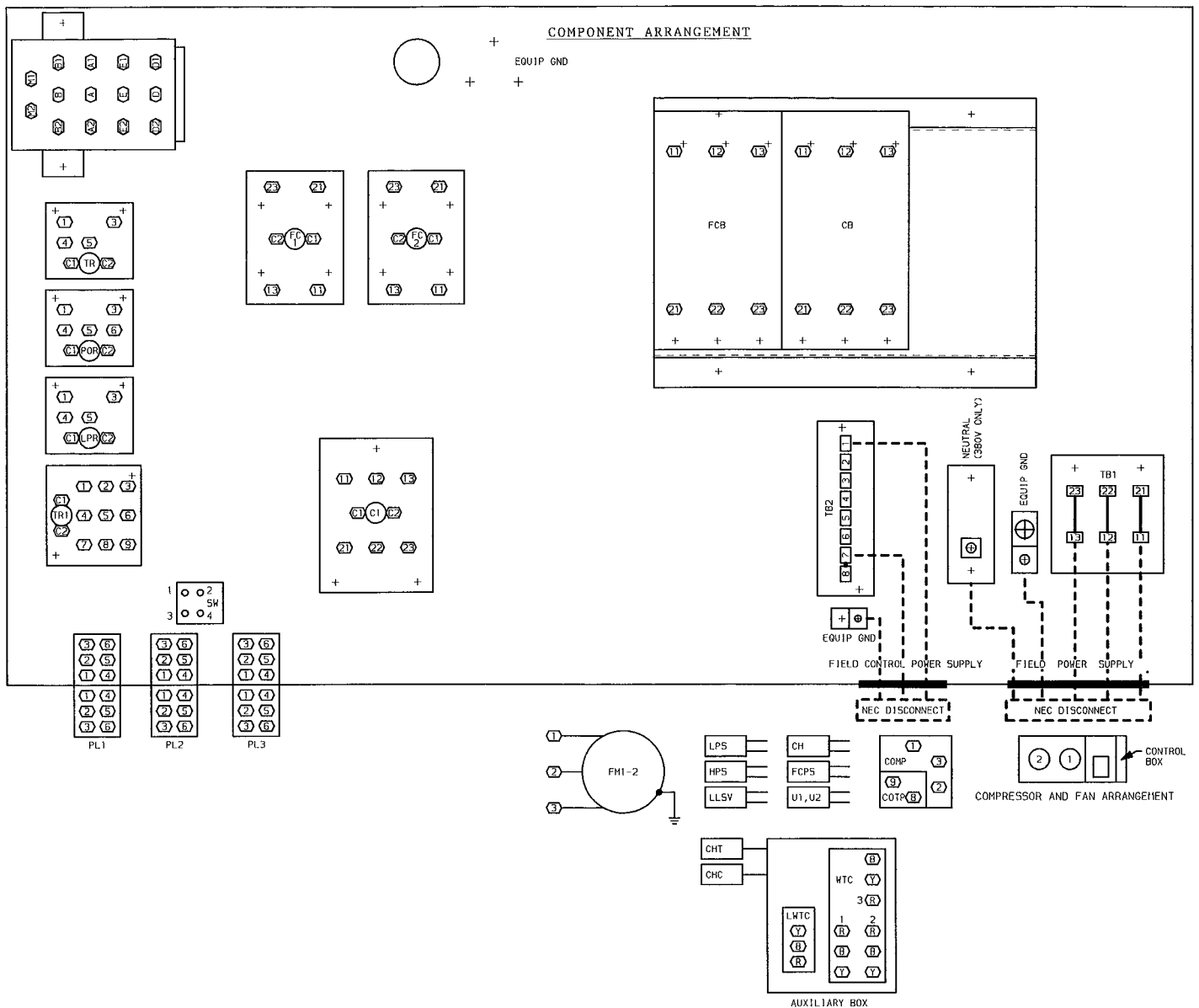


CONTROL SCHEMATIC



30GT503064	D
------------	---

Fig. 2 — Wiring Schematic; 30GT015; 208/230, 380, 460, 575 Volts, 60 Hz



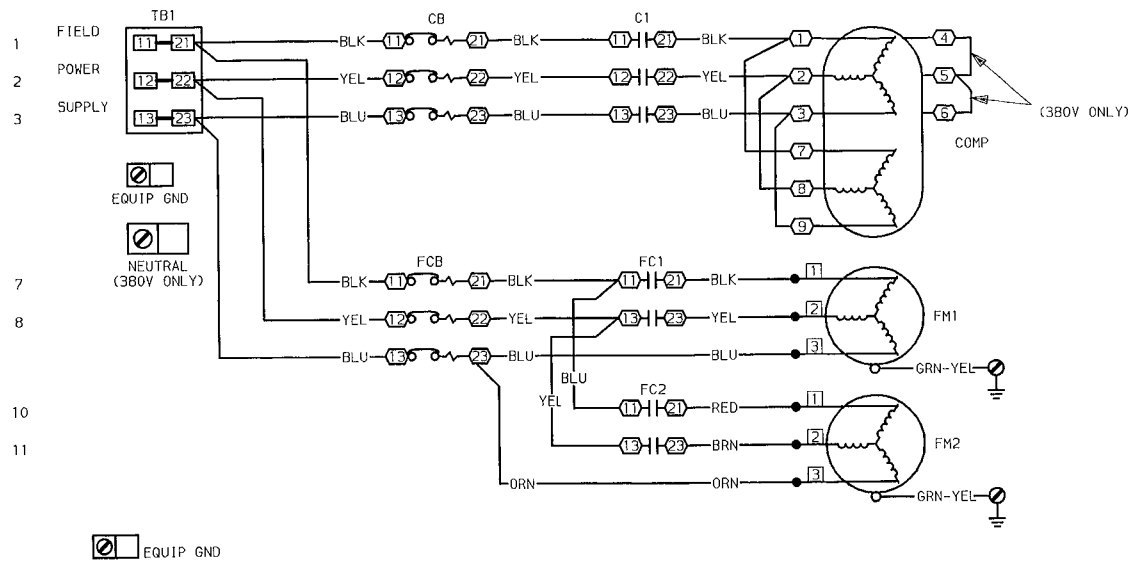
UNIT SIZE	MAIN VOLTAGE	CONTROL VOLTAGE	COMP CB	AIRPAX	MUST TRIP AMPS	FCB	AIRPAX	MUST TRIP AMPS
30GT015500	208/230	115	47-100-30	209-3-2599-330	87	CF3-Z33-39	219-3-2600-443	12
30GT015200	380	220	CF3-Z33-42	219-3-2600-446	45	CF3-Z33-35	219-3-2600-439	20
30GT015600	460	115	CF3-Z33-21	219-3-2600-422	40	CF3-Z33-78	219-3-2600-466	8.4
30GT015100	575	115	CF3-Z33-36	219-3-2600-440	31	CF3-Z33-38	219-3-2600-442	15

MOTOR-COMPRESSOR THERMALLY PROTECTED SYSTEM
CB MUST TRIP AMPS ARE LESS THAN OR EQUAL TO 156% RLA

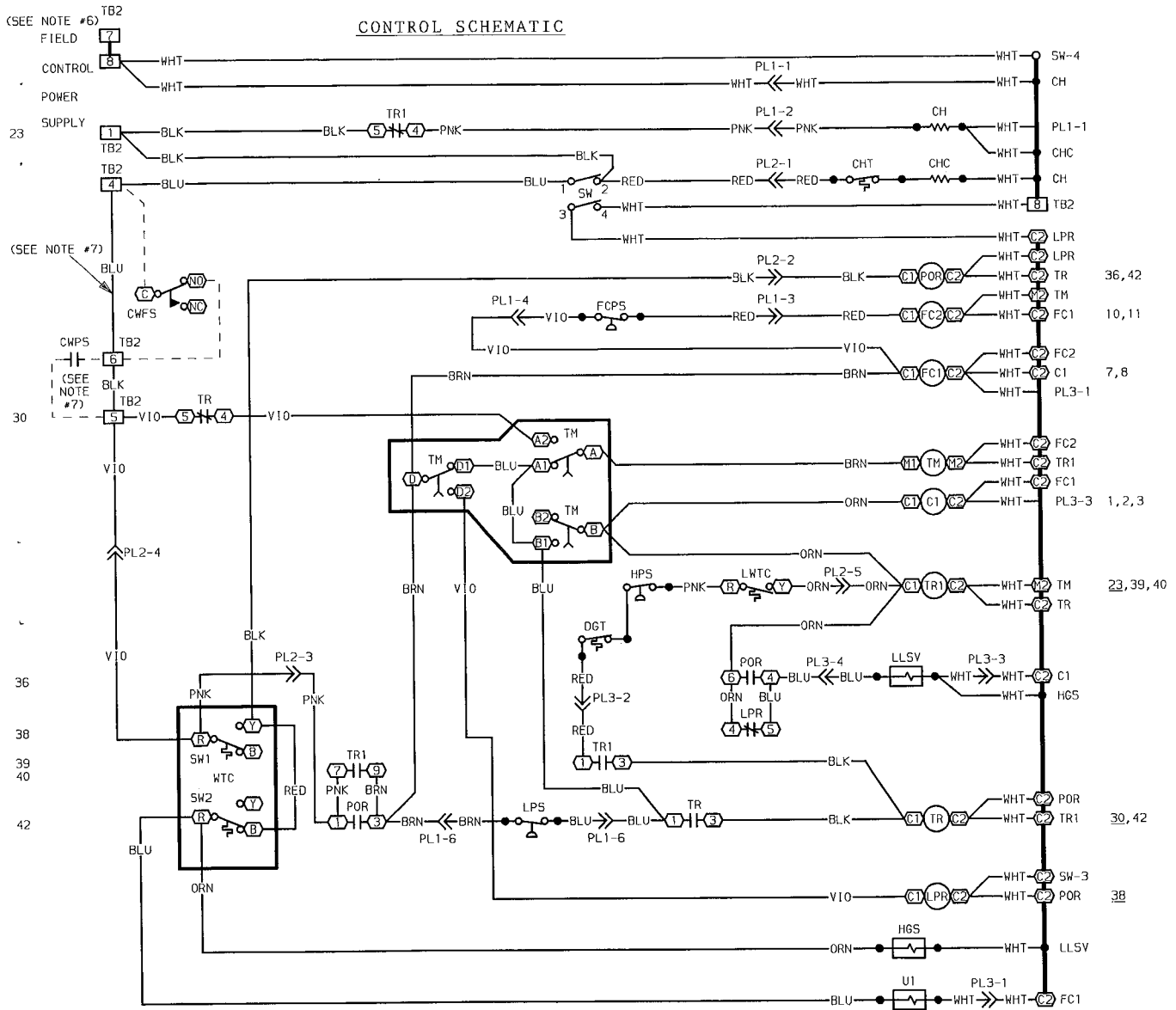
30GT503064 D

Fig. 3 — Component Arrangement; 30GT015; 208/230, 380, 460, 575 Volts, 60 Hz

POWER SCHEMATIC



CONTROL SCHEMATIC



30GT503065 E

Fig. 4 — Wiring Schematic; 30GT020; 380, 575 Volts, 60 Hz

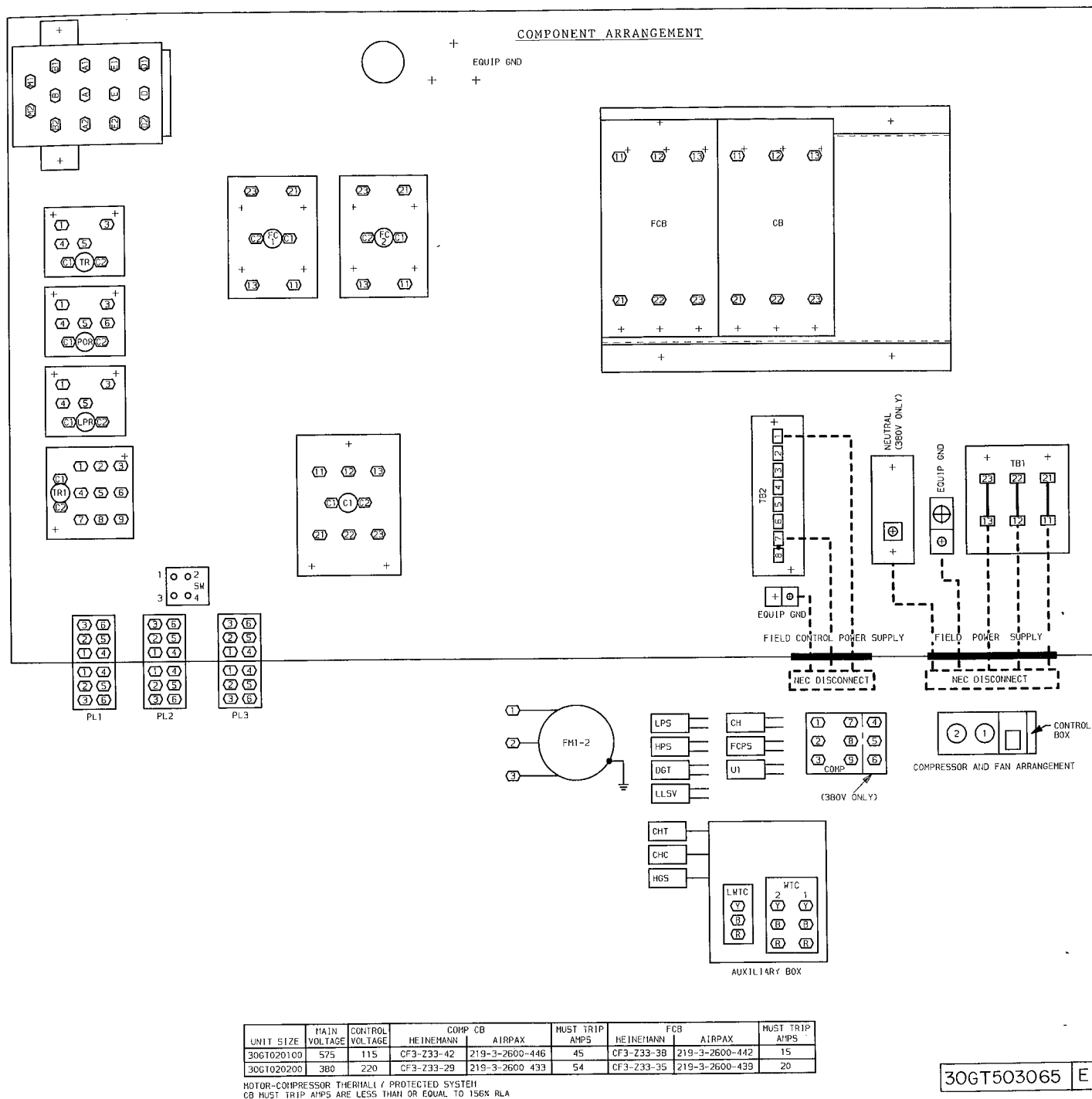


Fig. 5 — Component Arrangement; 30GT020; 380, 575 Volts, 60 Hz

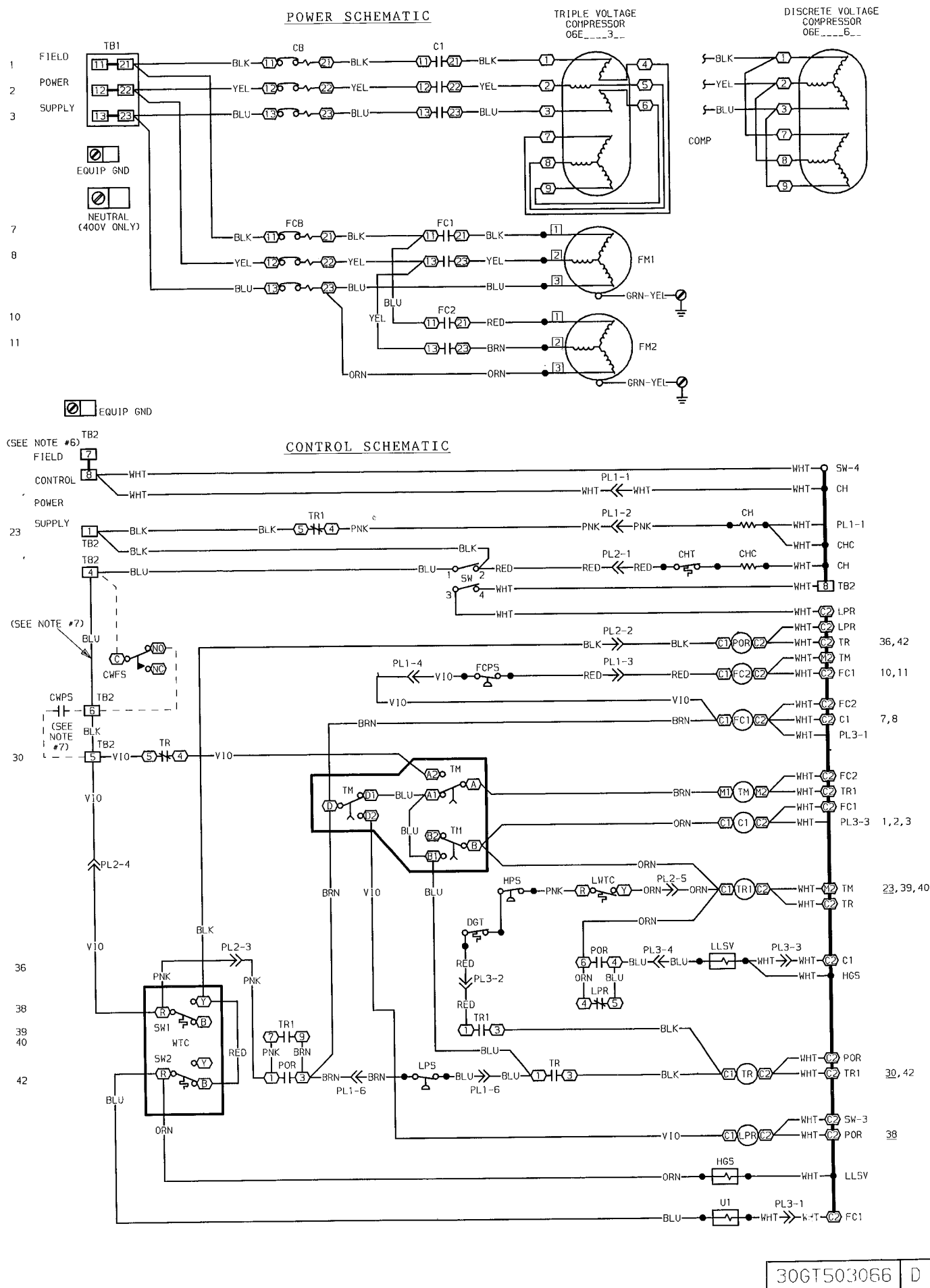


Fig. 6 — Wiring Schematic, 30GT020; 460 Volts, 60 Hz; 30GT015; 400 Volts, 50 Hz

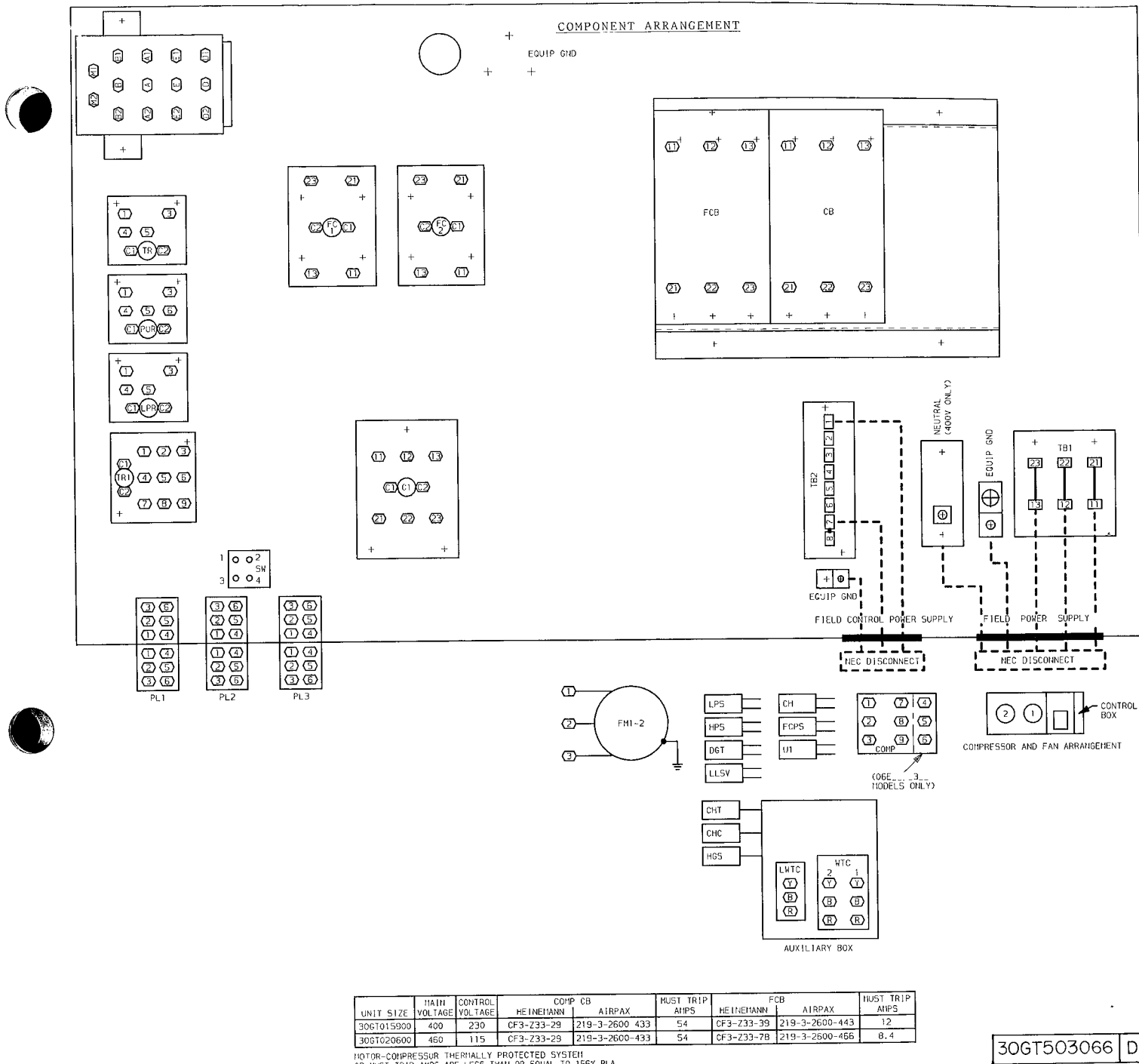
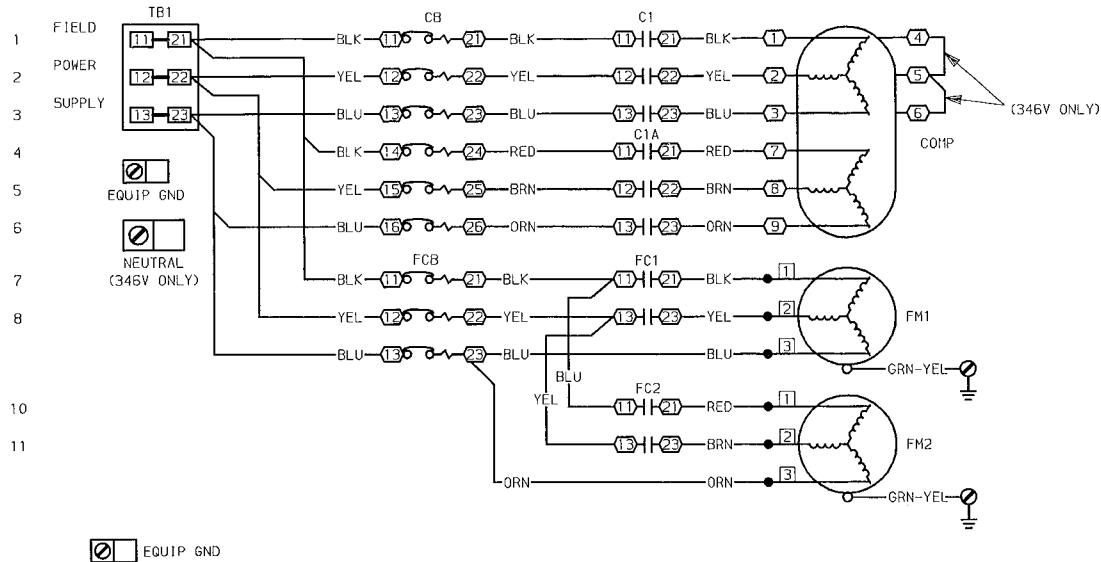
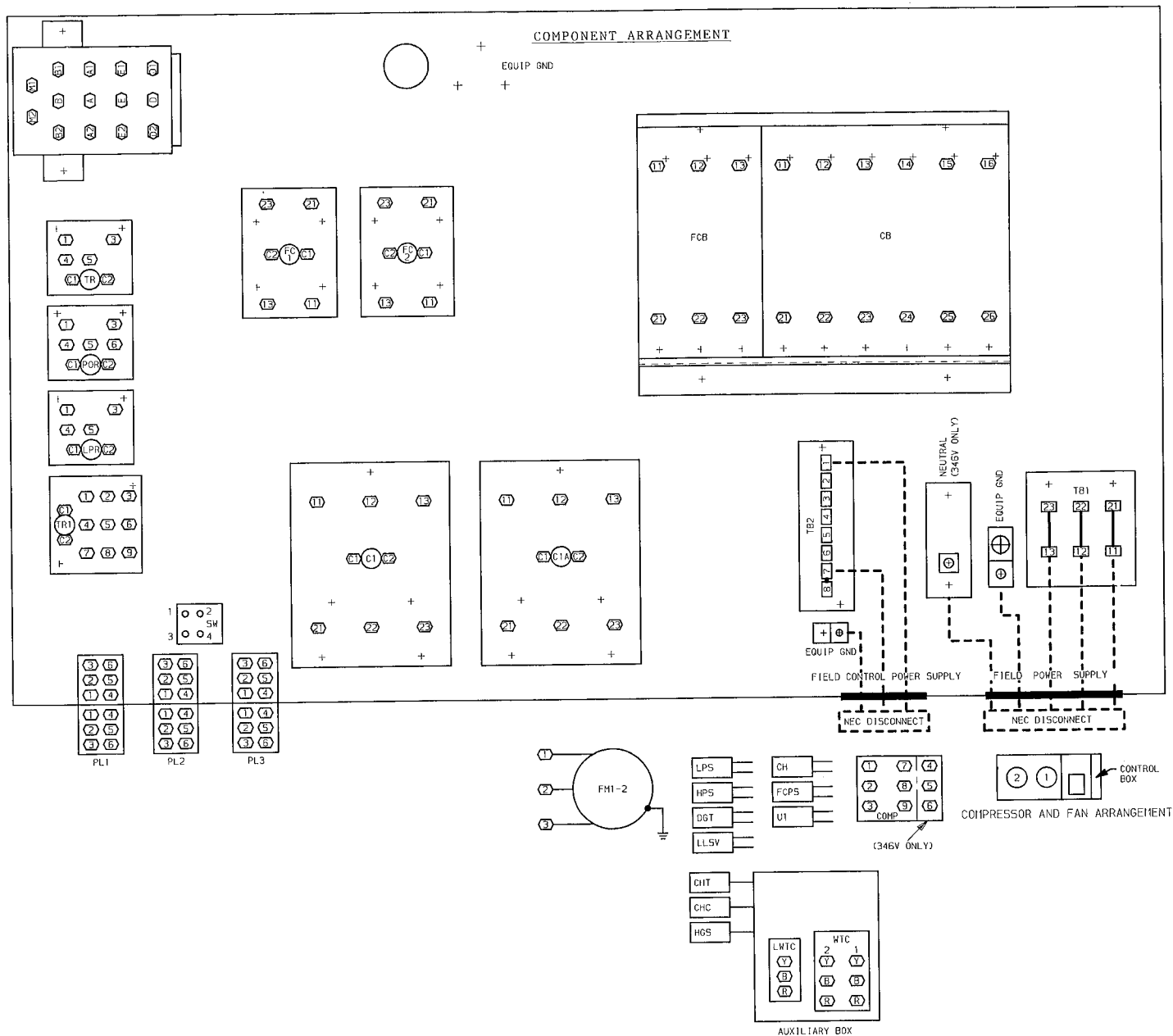


Fig. 7 — Component Arrangement; 30GT020; 460 Volts, 60 Hz; 30GT015; 400 Volts, 50 Hz

POWER SCHEMATIC





UNIT SIZE	MAIN VOLTAGE	CONTROL VOLTAGE	COMP CB	MUST TRIP AMPS	FCB	MUST TRIP AMPS
30GT015300	346	200/220	CF6-23-10	25	CF3-233-35	20
30GT015800	230	230	CF6-21-52	47	47-100-17	28

MOTOR-COMPRESSOR THERMALLY PROTECTED SYSTEM.
CB MUST TRIP AMPS ARE LESS THAN OR EQUAL TO 155X RLA

30GT503067 E

Fig. 9 — Component Arrangement; 30GT015; 230, 346 Volts, 50 Hz

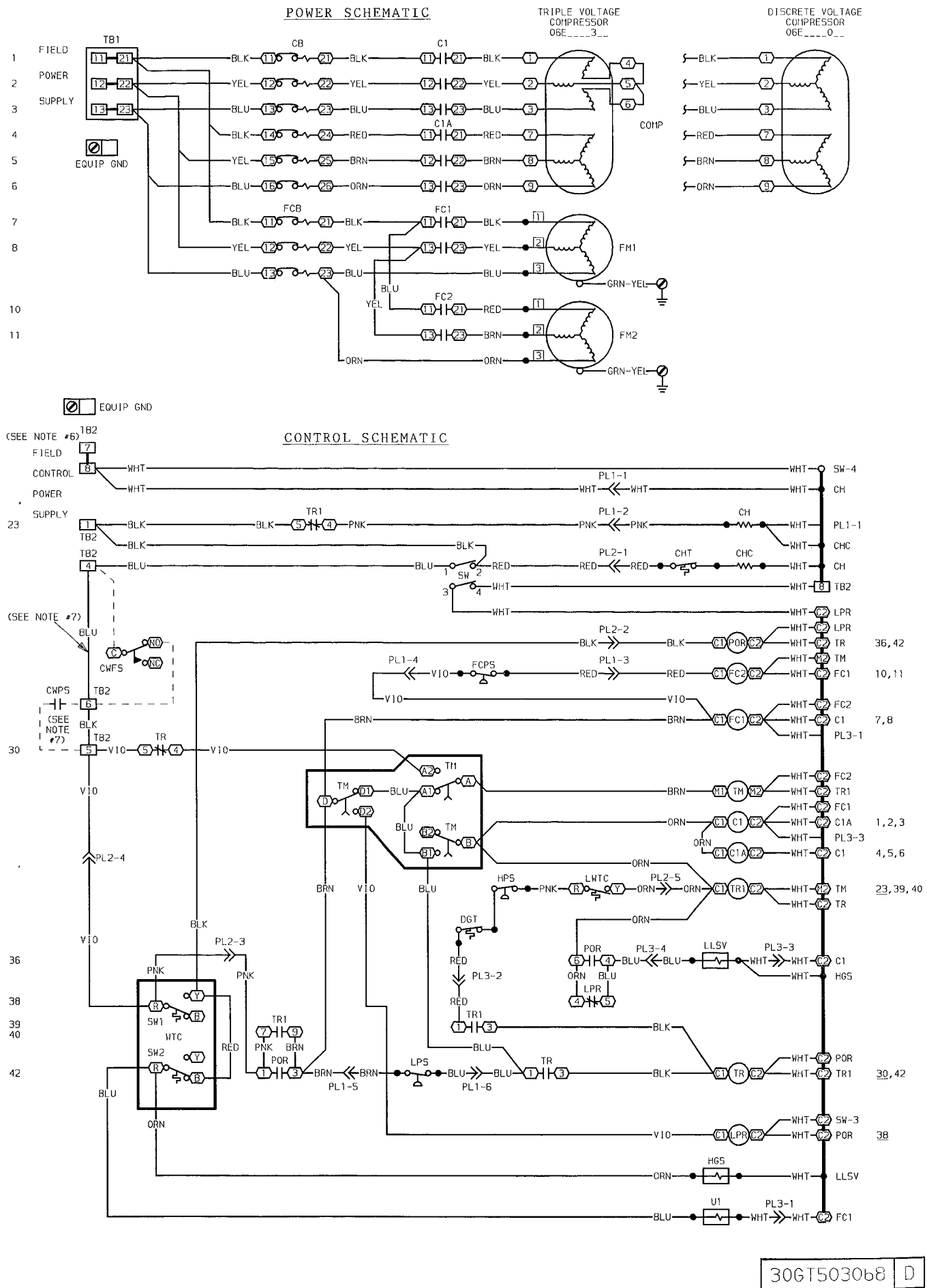


Fig. 10 — Wiring Schematic; 30GT020; 208/230 Volts, 60 Hz

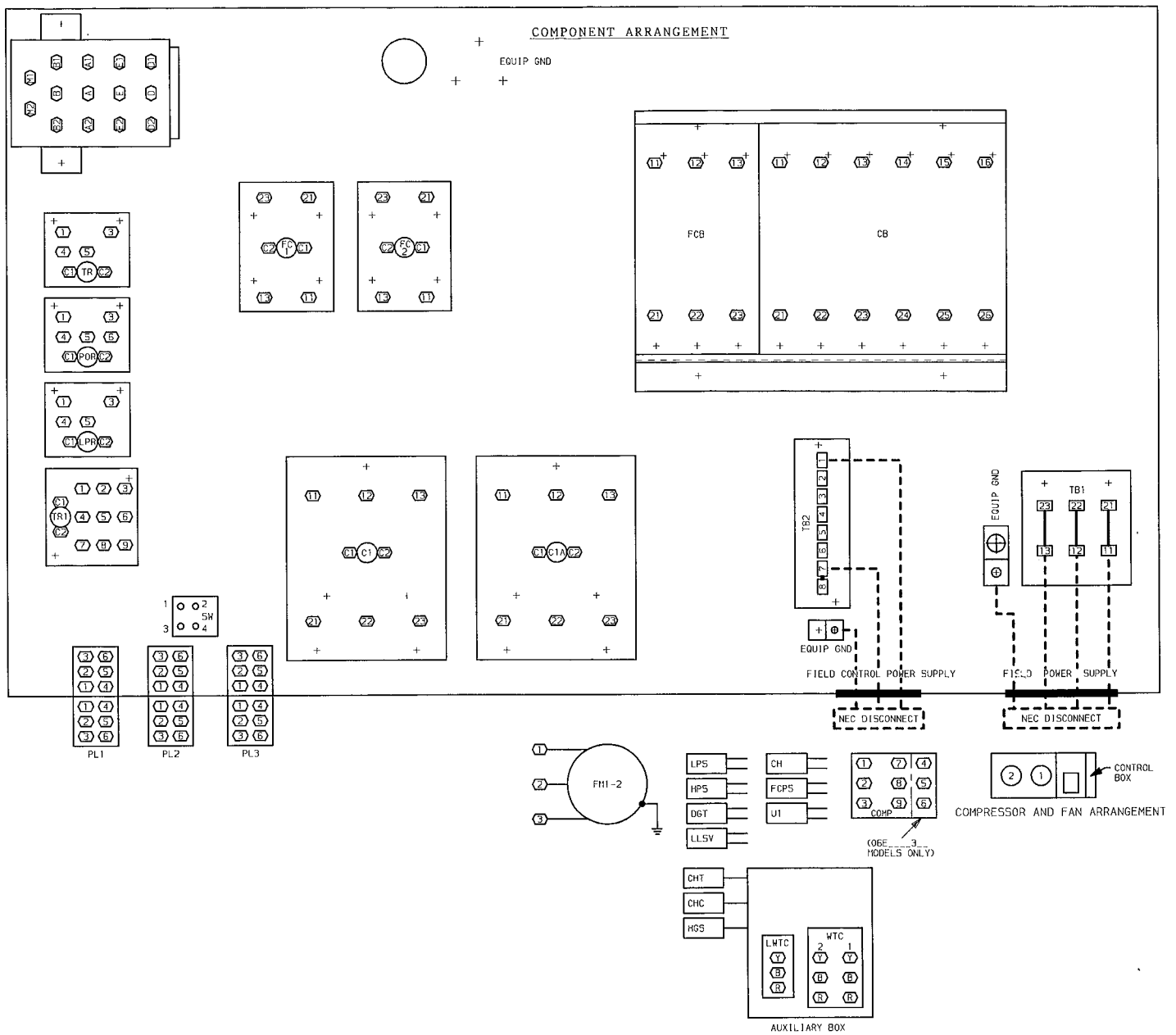
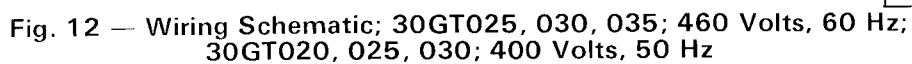
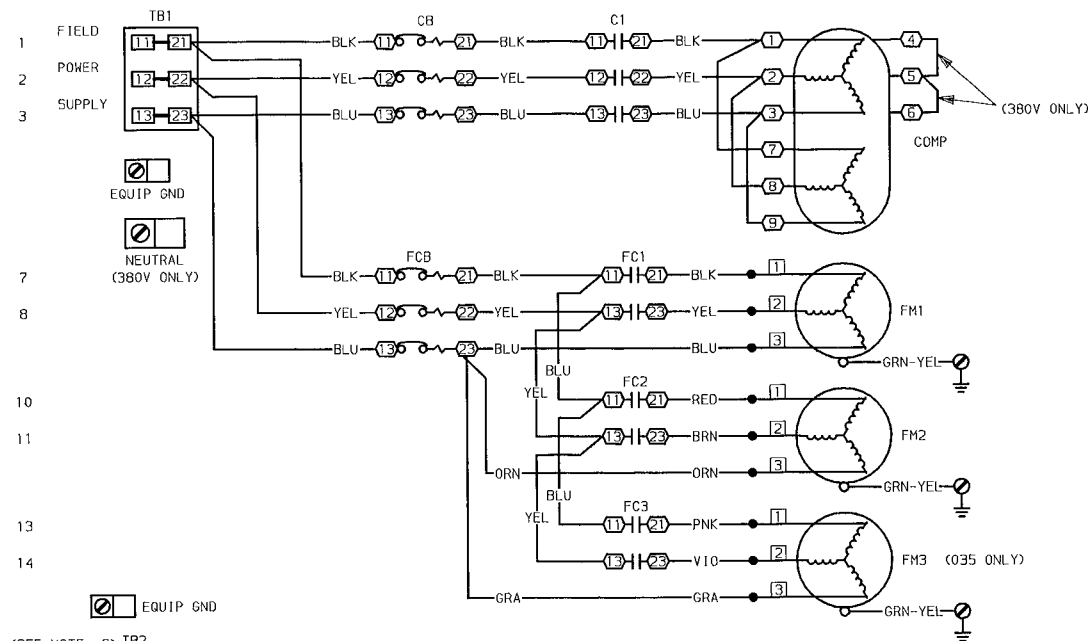


Fig. 11 — Component Arrangement; 30GT020; 208/230 Volts, 60 Hz



CONTROL SCHEMATIC

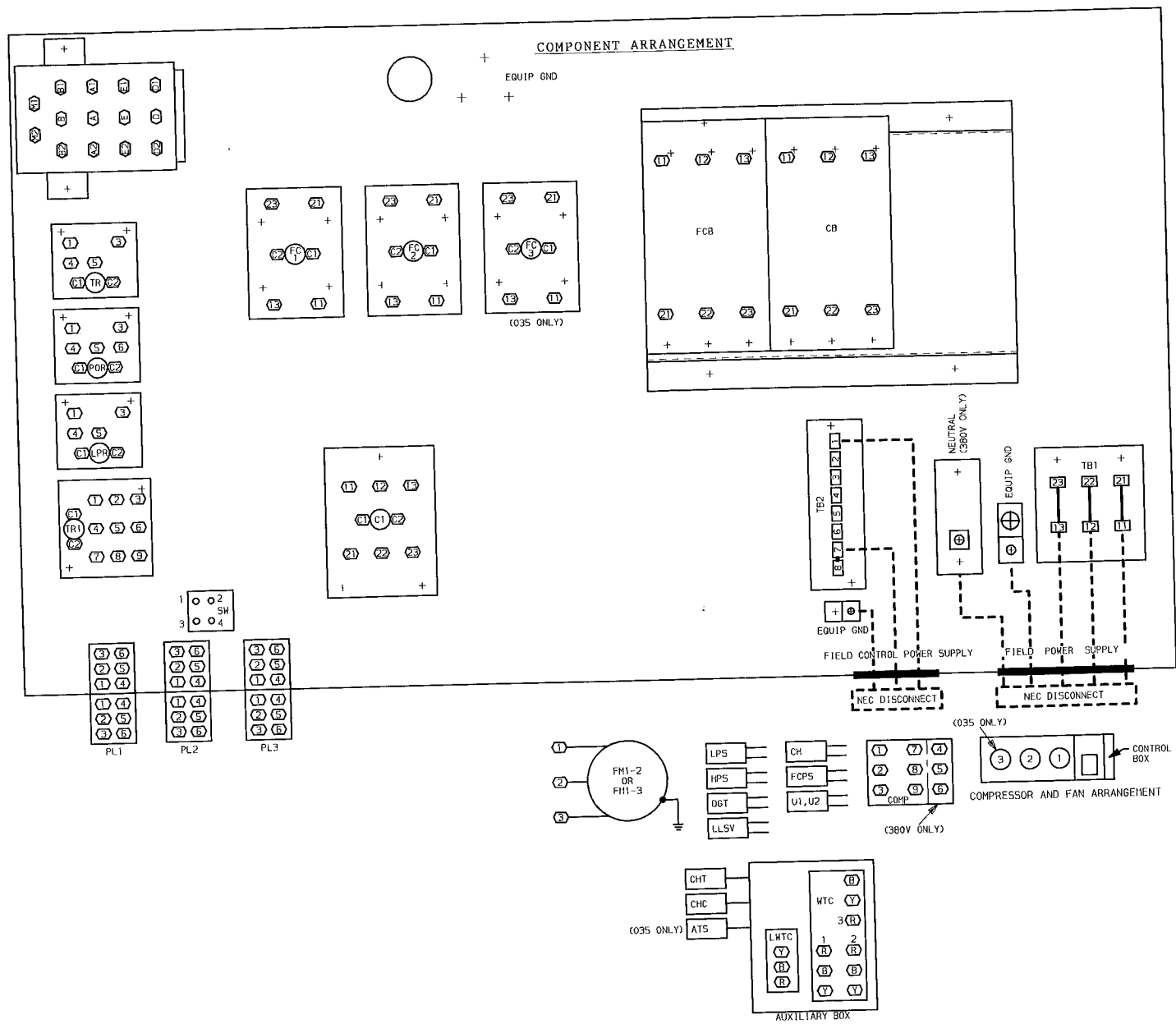


CONTROL SCHEMATIC

The schematic illustrates the electrical control system, starting with a power supply (23) and control lines (FIELD, CONTROL, POWER, SUPPLY). It details the wiring for various components including switches (SW-4, SW-3), relays (TR1, TR2, TR3), sensors (LPR, FC1, FC2, FC3, FC1), and safety devices (HPS, DGT, LPS). The diagram uses standard electrical symbols for switches, relays, and sensors, and includes wire color codes (WHT, BLK, BLU, RED, BRN, ORN, PNK) and terminal numbers (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 23, 36, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100). The schematic is divided into several sections, with components labeled with their respective part numbers and descriptions.

30GT503071	D
------------	---

16

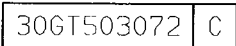


UNIT SIZE	MAIN VOLTAGE	CONTROL VOLTAGE	COMP CB	HEINEMANN	AIRPAX	MUST TRIP AMPS	FCB	HEINEMANN	AIRPAX	MUST TRIP AMPS
30GT025200	380	220	CF3-Z33-2	219-3-2600-403	71		CF3-Z33-35	219-3-2600-439	20	
30GT030200	380	220	CF3-Z33-30	219-3-2600-434	82		CF3-Z33-35	219-3-2600-439	20	
30GT025100	575	115	CF3-Z33-32	219-3-2600-435	57		CF3-Z33-38	219-3-2600-442	15	
30GT030100	575	115	CF3-Z33-37	219-3-2600-441	60		CF3-Z33-38	219-3-2600-442	15	
30GT035100	575	115	CF3-Z33-24	219-3-2600-425	89		CF3-Z33-35	219-3-2600-439	20	

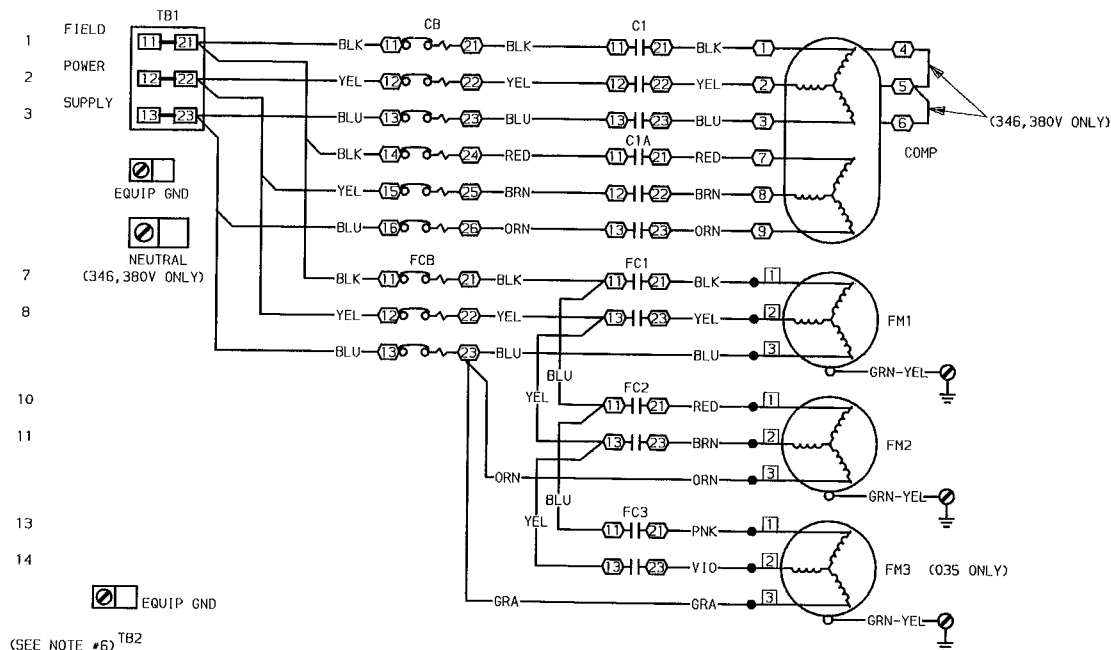
MOTOR-COMPRESSOR THERMALLY PROTECTED SYSTEM
CB MUST TRIP AMPS ARE LESS THAN OR EQUAL TO 156% RLA

30GT503071 D

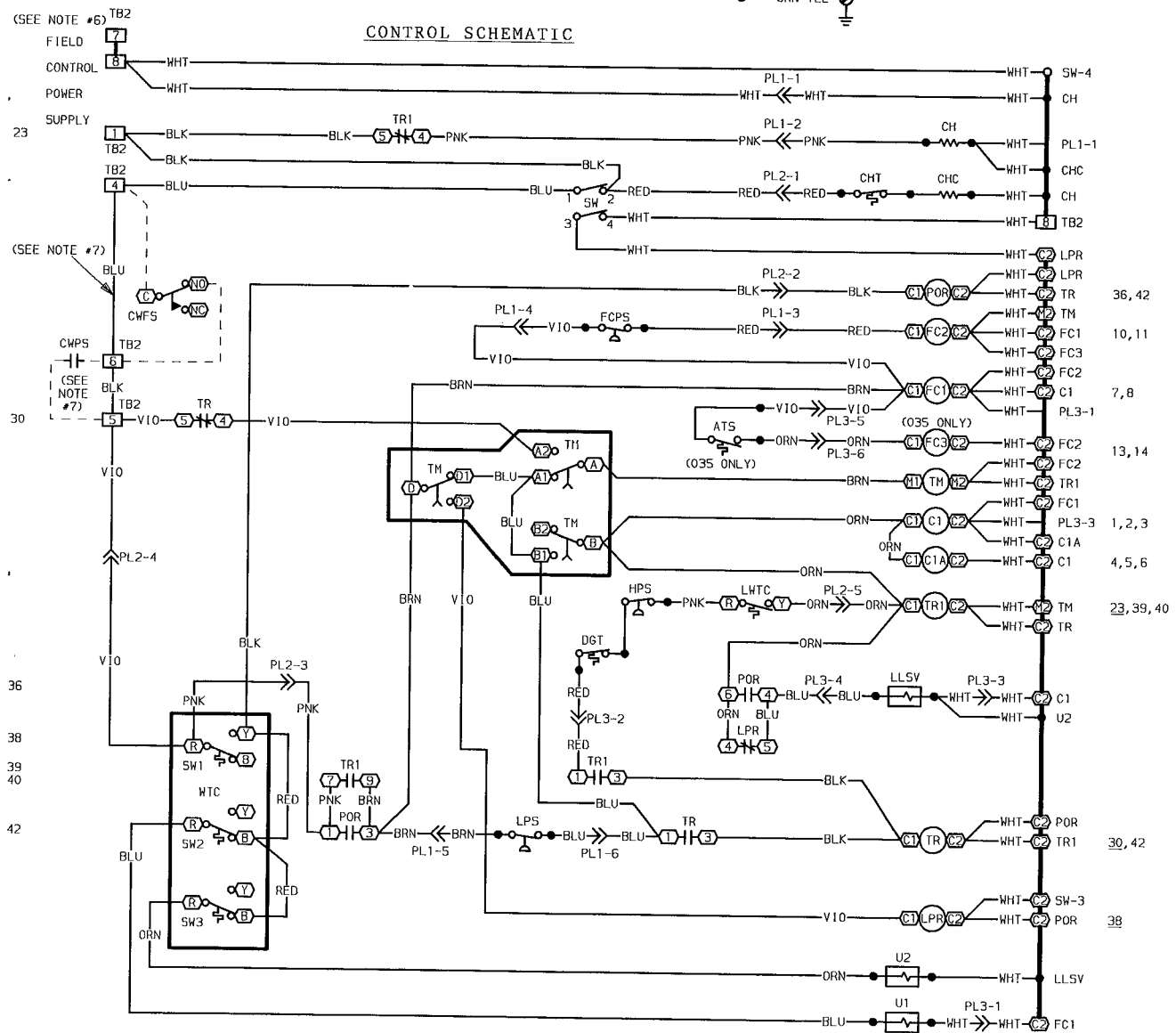
Fig 15 — Component Arrangement; 30GT025, 030; 380, 575 Volts, 60 Hz; 30GT035; 575 Volts, 60 Hz



POWER SCHEMATIC

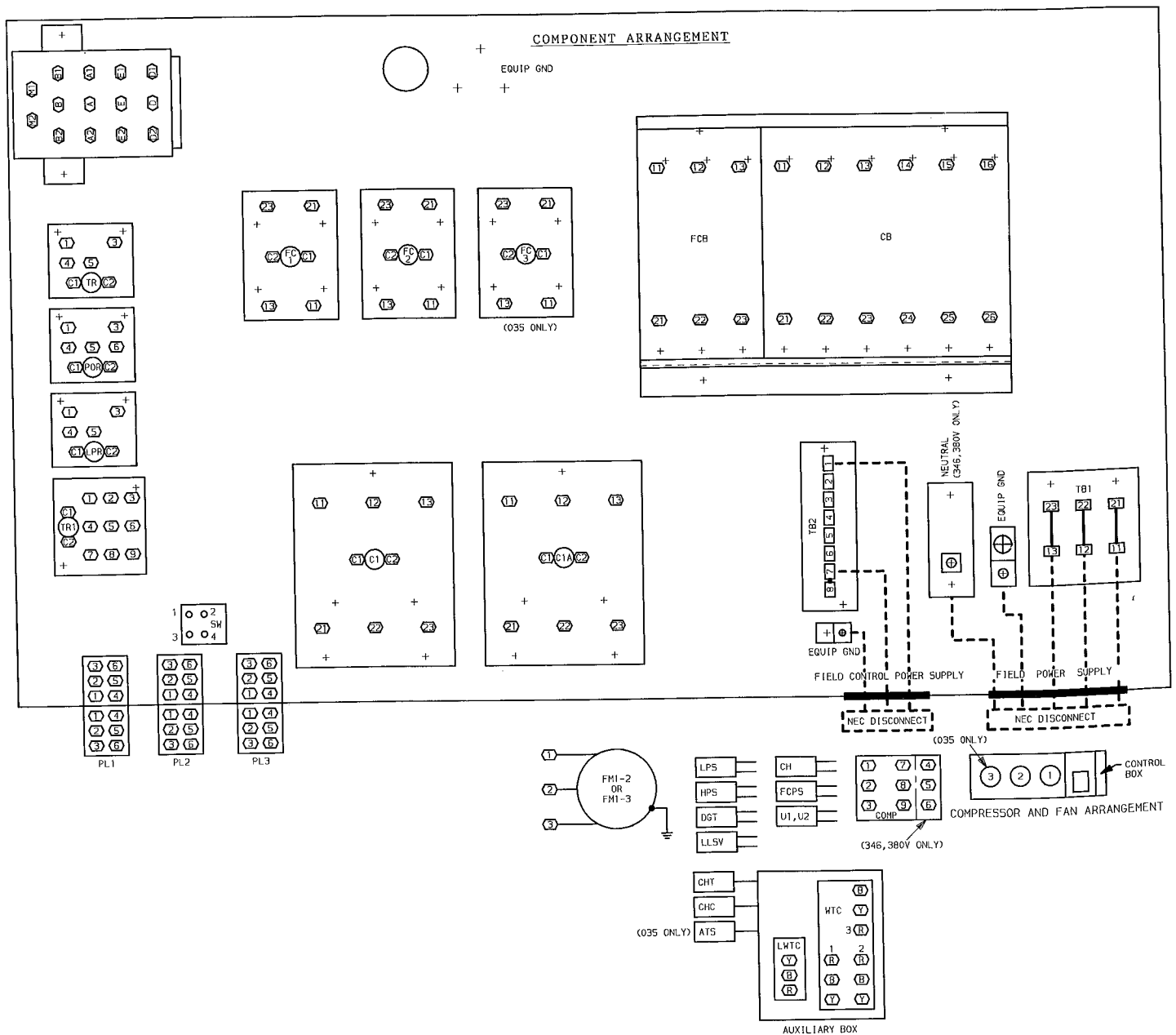


CONTROL SCHEMATIC



30GT503073 D

Fig. 18 — Wiring Schematic; 30GT035; 380 Volts, 60 Hz;
30GT020, 025, 030; 230, 346 Volts, 50 Hz



UNIT SIZE	MAIN VOLTAGE	CONTROL VOLTAGE	COMP CB	HUST TRIP AMPS	HEINEMANN	FCB	HUST TRIP AMPS
30GT020800	230	230	CF6-Z1-37	60	47-100-17	209-3-2599-317	28
30GT025800	230	230	CF6-Z1-19	67	47-100-17	209-3-2599-317	28
30GT030800	230	230	CF6-Z1-8	82	47-100-17	209-3-2599-317	28
30GT020300	346	200/220	CF6-Z3-3	60	CF3-Z33-35	219-3-2600-439	20
30GT025300	346	200/220	CF6-Z3-14	42	CF3-Z33-35	219-3-2600-439	20
30GT030300	346	200/220	CF6-Z3-24	62	CF3-Z33-35	219-3-2600-439	20
30GT035200	380	220	CF6-Z3-24	62	CF3-Z33-35	219-3-2600-439	20

MOTOR-COMPRESSOR THERMALLY PROTECTED SYSTEM
CB MUST TRIP AMPS ARE LESS THAN OR EQUAL TO 156% RLA

30GT503073 D

**Fig. 19 — Component Arrangement; 30GT035; 380 Volts, 60 Hz;
30GT020, 025, 030; 230, 346 Volts, 50 Hz**

Field-Installed Accessories — Ordering numbers for field-installed accessories are listed on 30GT015 through 035 price pages. For field installation of these accessories, see the installation instructions supplied with the accessories, in addition to the following instructions. Refer to the wiring labels for complete unit wiring schematics and location of control box components.

PART WINDING START — Order Carrier part number HN67ZA001 (previous part no. was 30HK501602).

NOTE All units are built as standard with across the line compressor start. The availability of part winding start will be as shown in the following table.

VOLTAGE							
UNIT SIZE 30GT	60 HZ				50 HZ		
	208/230	380	460	575	230	346	400
015	1	1	1	1	4	4	3
020	4	2	3	2	4	4	3
025	4	2	3	2	4	4	3
030	4	2	3	2	4	4	3
035	4	2	3	2	NA	NA	NA

NOTES

1. Cannot be converted to part winding start.
2. Requires special order to change circuit breakers and contactors.
3. Requires special order to change circuit breakers, contactors and cannot use triple voltage compressor.
4. Can be field modified to part winding start by adding a time delay relay (part no. HN67ZA001).

Installation — Pre-drilled holes for time delay relay are located in lower left corner of control box, below control relay TR1. Use two #6B-20 screws to fasten time delay relay to control box. Remove orange (ORN) wire between C1 terminal of compressor contactor coils C1 and C1A. Wire time delay relay HN67ZA001 between C1 terminal of compressor contactor coils C1 and C1A and install jumper on center terminals. See Fig. 20.

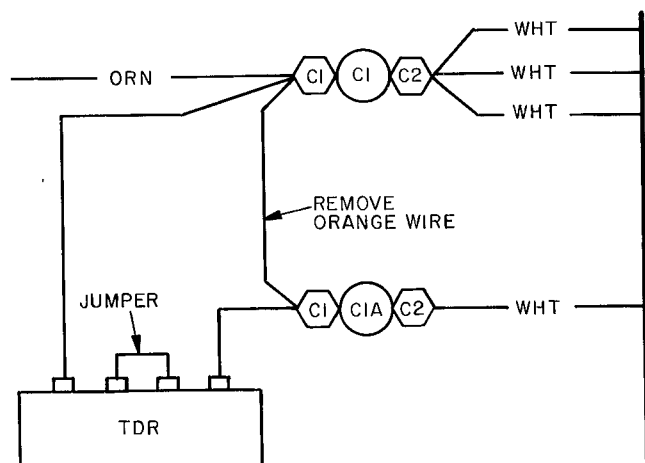


Fig. 20 — Time Delay Relay Wiring

CHILLED WATER FLOW SWITCH — (All Units)
Order Carrier part no. HR81LG005.

Installation — Remove blue (BLU) wire between terminals 4 and 6 of TB2. Install chilled water flow switch

between terminals 4 and 6 of TB2, as shown on unit wiring diagram.

HOT GAS BYPASS — (30GT015, 025, 030, 035 60 Hz, and 30GT020, 025, 030 — 50 Hz) Order part no. 30GA900161 (115 v) or 30GA900171 (230 v). Install per instructions in accessory package.

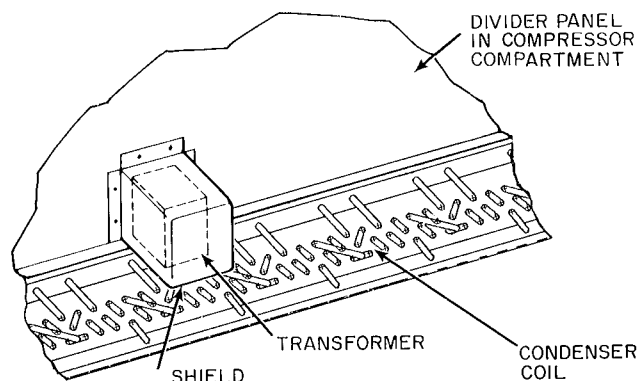
CONTROL TRANSFORMER — (All units with 115-v, 60 Hz control circuit power on 208, 230, 460-v units) Order Carrier part no. HT01BE227. This transformer (750 va) is for use as an alternate source for 115-v, 60 Hz control circuit power on 30GT015 - 035 with 208/230/460 primaries.

CAUTION

Be sure all power to the unit is disconnected before starting installation. Tag disconnect to inform others unit is being worked on.

Installation

1. Mount transformer to divider panel above condenser coil inside compressor compartment. Holes must be field drilled. Fasten with 1/4 - 20 thread cutting screws. See Fig. 21. Exact mounting location of transformer is at direction of installer. There are no wires or obstructions on reverse side of divider panel to interfere with mounting screws.



NOTE Transformer shield is field supplied

Fig. 21 — Transformer Mounted on Divider Panel

2. Wires, terminal connectors and fuse must be field supplied. Use 16 AWG, 90 C wire with 4/64-in thick insulation. See unit wiring label inside front access door for complete wiring schematic and control box component location.
3. Connect primary side of transformer to unit power terminal block TB1. Connect terminal 21 of TB1 to terminal H1 of transformer and terminal 22 of TB1 to proper H terminal of transformer, according to required voltage. See Fig. 22.
4. Connect terminal X1 of transformer to one side of 15 amp fuse and connect other side of fuse to terminal I of TB2. Secure fuse holder under transformer shield or inside control box. Connect terminal X2 of transformer to terminal 7 of TB2. Install green/yellow ground wire from terminal X2 of transformer to ground. This grounds the I,2 side.

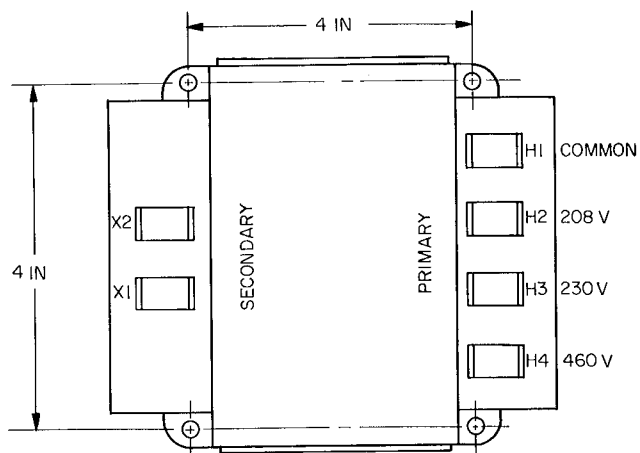


Fig. 22 — Transformer Terminal Arrangement

- 5 Route primary and secondary wires away from rough or sharp objects, tying or taping wires to existing harness
- 6 A protective shield must be field fabricated and installed over the transformer

LOW AMBIENT HEAD PRESSURE FAN CONTROL — (All units with 208/230-3, 60 Hz and 460-3, 60 Hz unit supply systems). Order part no 50DJ901461 (208/230-3, 60 Hz unit voltage) or 50DJ901471 (460-3, 60 Hz unit voltage) Install per instructions contained in package

OIL PRESSURE SWITCH — (30GT020, 025, 030, 035, 60 Hz and 30GT015, 020, 025, 030, 50 Hz) Order part no 30HK900011 Install per instructions in accessory package

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations

Book 2
Tab 5c

PC 111

Catalog No 533-045

Printed in U S A

Form 30GT-1W

Pg 24

3-89

Replaces: New