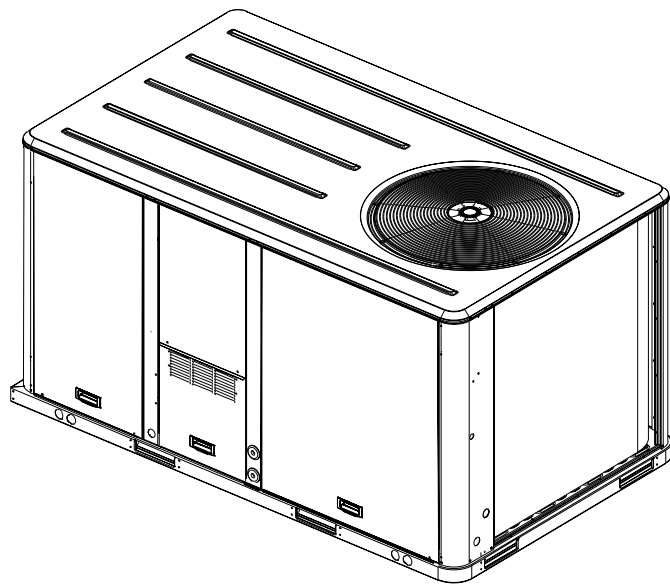


# Wiring Manual

---

Packaged Gas/Electric  
with ReliaTel™ Controls

3 - 10 Tons



**Models:**

(60 Hz)

YSC036A\*R - YSC120A\*R

YHC033A\*R - YHC120A\*R

# Introduction

---

## Literature Change History

**Y\_C-SVE-002A-EN (Nov. 2003)**  
Updated wiring diagrams.

**Y\_C-SVE-002B-EN (Nov. 2004)**  
Updated wiring diagrams.

## Overview of Manual

This manual provides wiring diagrams for unit models listed on the front page. Refer to the Table of Contents for proper wiring diagrams.

### **NOTICE:**

Warnings and Cautions appear at appropriate sections throughout this manual. Read these carefully.



**WARNING**– Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION** – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**CAUTION** – Indicates a situation that may result in equipment or property-damage-only accidents.

# Contents

Literature Change History .....	2		
Warnings and Cautions .....	2		
Model Number Description .....	5		
<b>Power Schematics</b>			
Diagram 1 .....	6	Diagram 11 .....	26
Power Schematic - 230v/60hz/1ph		Power Schematic - 460-575v/60hz/3ph	
2 - 5 Ton Single Stage Gas Heat / Direct Drive Motor		7.5 - 10 Ton Gas Heat / Dual Compressor	
4366-1002		4366-1034	
Diagram 2 .....	8	<b>Connection Schematics</b>	
Power Schematic - 230v/60hz/1ph		Diagram 12 .....	28
2 - 5 Ton Single Stage Gas Heat / Oversize Drive Motor		Connection Schematic - 230v/60hz/1ph	
4366-1018		Single Stage Gas Heat / Direct Drive	
Diagram 3 .....	10	4366-1501	
Power Schematic - 230v/60hz/3ph		Diagram 13 .....	30
2 - 5 Ton Single Stage Gas Heat / Direct Drive Motor		Connection Diagram - 230v/60hz/1ph	
4366-1000		Single Stage Gas Heat / Oversize Motor	
Diagram 4 .....	12	4366-1520	
Power Schematic - 230v/60hz/3ph		Diagram 14 .....	32
2 - 5 Ton Single Stage Gas Heat / Oversize Drive Motor		Connection Diagram - 230v/60hz/3ph	
4366-1017		Single Stage Gas Heat / Direct Drive	
Diagram 5 .....	14	4366-1503	
Power Schematic - 230v/60hz/3ph		Diagram 15 .....	34
2 - 7.5 Ton Single Stage Gas Heat / Belt Drive Motor		Connection Diagram - 230v/60hz/3ph	
4366-1016		Single Stage Gas Heat / Oversize Motor	
Diagram 6 .....	16	4366-1504	
Power Schematic - 230v/60hz/3ph		Diagram 16 .....	36
7.5 - 10 Ton Gas Heat / Dual Compressor		Connection Diagram - 230v/60hz/3ph	
4366-1033		Single Stage Gas Heat / Belt Drive	
Diagram 7 .....	18	4366-1522	
Power Schematic - 460-575v/60hz/3ph		Diagram 17 .....	38
2 - 3 Ton Single Stage Gas Heat / Direct Drive Motor		Connection Diagram - 230v/60hz/3ph	
4366-1004		6 - 7.5 Ton Gas Heat / Single Compressor	
Diagram 8 .....	20	4366-1539	
Power Schematic - 460-575v/60hz/3ph		Diagram 18 .....	40
4 - 5 Ton Single Stage Gas Heat / Direct Drive Motor		Connection Diagram - 230v/60hz/3ph	
4366-1032		7.5 - 10 Ton Gas Heat / Dual Compressor	
Diagram 9 .....	22	4366-1530	
Power Schematic - 460-575v/60hz/3ph		Diagram 19 .....	42
4 - 5 Ton Single Stage Gas Heat / Oversize Drive Motor .		Connection Diagram - 460-575v/60hz/3ph	
4366-1011		2 - 3 Ton Single Stage Gas Heat / Direct Drive	
Diagram 10 .....	24	4366-1514	
Power Schematic - 460-575v/60hz/3ph		Diagram 20 .....	44
2 - 7.5 Ton Single Stage Gas Heat / Belt Drive Motor		Connection Diagram - 460-575v/60hz/3ph	
4366-1005		4 - 5 Ton Single Stage Gas Heat / Direct Drive	
		4366-1518	
		Diagram 21 .....	46
		Connection Diagram - 460-575v/60hz/3ph	
		4 - 5 Ton Single Stage Gas Heat / Oversize Motor	
		4366-1515	

# Contents

---

Diagram 22 .....	48
Connection Diagram - 460-575v/60hz/3ph Single Stage Gas Heat / Belt Drive 4366-1516	
Diagram 23 .....	50
Connection Diagram - 460-575v/60hz/3ph 6 - 7.5 Ton Gas Heat / Single Compressor 4366-1540	
Diagram 24 .....	52
Connection Diagram - 460-575v/60hz/3ph 7.5 - 10 Ton Gas Heat / Dual Compressor 4366-1532	
<b>Control Schematics</b>	
Diagram 25 .....	54
Control Schematic 2 - 5 Ton Single Stage Gas Heat / Direct Drive 4366-1006	
Diagram 26 .....	56
Control Schematic 2 - 7.5 Ton Single Stage Gas Heat / Belt Drive or Oversize Motor 4366-1015	
Diagram 27 .....	58
Control Schematic 7.5 - 10 Ton Gas Heat / Dual Compressor 4366-1042	
<b>Novar Schematics</b>	
Diagram 28 .....	60
Novar 2024	
Diagram 29 .....	61
Novar 3051	
<b>Through The Base Utilities Schematic</b>	
Diagram 30 .....	62
<b>CO<sub>2</sub> Sensor / Ventilation Override Schematic</b>	
Diagram 31 .....	63

# Model Number Description

**Y S C 036 A 3 R L A \* C 0 0 0 C 1 0 0 0 1 A 1**  
**1 2 3 4,5,6 7 8 9 10 11 12,13 14 15 16 17 18 19 20 21 22 23 24 25**

## DIGIT 1 - Unit Function

Y = DX Cooling, Gas Heat

## DIGIT 2 - Efficiency

S = Standard Efficiency  
H = High Efficiency

## DIGIT 3 - Airflow

C = Convertible

## DIGITS 4,5,6 - Nominal Gross Cooling

### Capacity (MBh)

033 = 3-Ton  
036 = 3-Ton  
043 = 4-Ton  
048 = 4-Ton  
060 = 5-Ton  
063 = 5-Ton  
072 = 6-Ton  
090 = 7½-Ton, Single Compressor  
092 = 7½-Ton, Dual Compressors  
102 = 8½-Ton  
120 = 10-Ton

## DIGIT 7 - Major Design Sequence

A = First

## DIGIT 8 - Unit Voltage

1 = 208-230/60/1  
3 = 208-230/60/3  
4 = 460/60/3  
W = 575/60/3  
K = 380/60/3

## DIGIT 9 - Unit Controls

E = Electromechanical  
R = ReliaTel™ Microprocessor

## DIGIT 10 - Heating Capacity

L = Low  
M = Medium  
H = High  
X = Low, Stainless Steel Heat Exchanger  
Y = Medium, Stainless Steel Heat Exchanger  
Z = High, Stainless Steel Heat Exchanger

## DIGIT 11 - Minor Design Sequence

A = First Sequence

## DIGITS 12, 13 - Service Sequence

\*\* = Factory Assigned

## DIGIT 14 - Fresh Air Selection

0 = No Fresh Air  
A = Manual Outside Air Damper 0-50%  
B = Motorized Outside Air Damper 0-50%  
C = Economizer, Dry Bulb 0-100% without Barometric Relief  
D = Economizer, Dry Bulb 0-100% with Barometric Relief  
E = Economizer, Reference Enthalpy 0-100% without Barometric Relief  
F = Economizer, Reference Enthalpy 0-100% with Barometric Relief  
G = Economizer, Comparative Enthalpy 0-100% without Barometric Relief  
H = Economizer, Comparative Enthalpy 0-100% with Barometric Relief

## DIGIT 15 - Supply Fan/Drive Type/Motor

0 = Standard Drive  
1 = Oversized Motor  
2 = Optional Belt Drive Motor

## DIGIT 16 - Hinged Service Access Filters

0 = Standard Panels/Standard Filters  
A = Hinged Access Panels/Standard Filters  
B = Standard Panels/2" Pleated Filters  
C = Hinged Access Panels/2" Pleated Filters

## DIGIT 17 - Condenser Coil Protection

0 = Standard Coil  
1 = Standard Coil with Hail Guard  
2 = Epoxy Coated Condenser Coil  
3 = Epoxy Coated Condenser Coil with Hail Guard

## DIGIT 18 - Through the Base Provisions

0 = No Through the Base Provisions  
A = Through the Base Electric  
B = Through the Base Gas Piping  
C = Through the Base Electric and Gas Piping

## DIGIT 19 - Disconnect/Circuit Breaker (3 phase only)

0 = No Disconnect or Circuit Breaker  
1 = Non-Fused Disconnect

2 = Circuit Breaker

## DIGIT 20 - Convenience Outlet

0 = No Convenience Outlet  
A = Unpowered Convenience Outlet  
B = Powered Convenience Outlet (3 phase only)

## DIGIT 21 - Communications Options

0 = No Communications Interface  
1 = Trane Communications Interface  
2 = LonTalk® Communications Interface  
3 = Novar 2024 Controls  
4 = Novar 3051 Controls

## DIGIT 22 - Refrigeration System Option

0 = Standard Refrigeration System  
A = Thermal Expansion Valve (TXV)  
B = Dehumidification (Hot Gas Reheat Coil)

## DIGIT 23 - Refrigeration Controls

0 = No Refrigeration Control  
1 = High Pressure Control  
2 = Froststat  
3 = Crankcase Heater  
4 = High Pressure Control and Froststat  
5 = High Pressure Control and Crankcase Heater  
6 = Froststat and Crankcase Heater  
7 = High Pressure Control, Froststat and Crankcase Heater

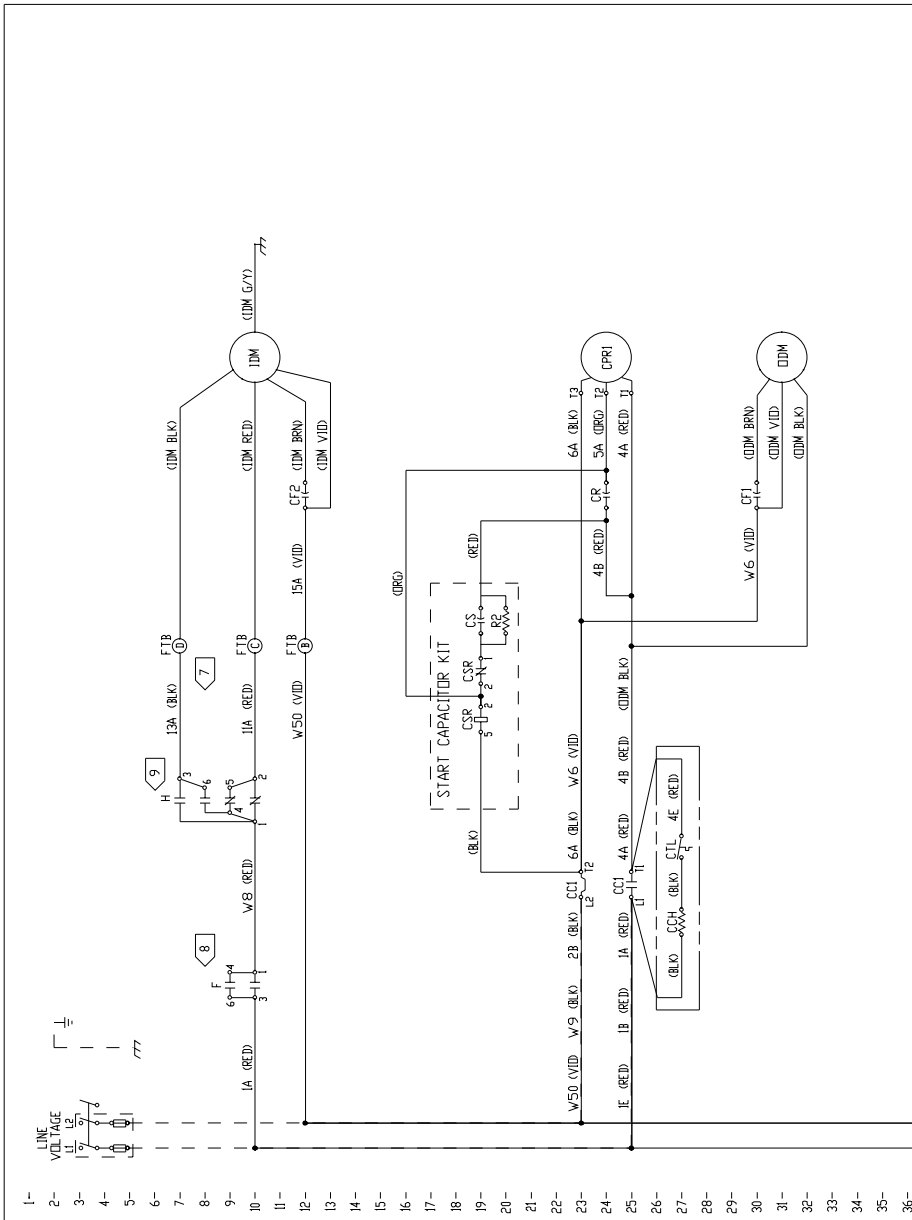
## DIGIT 24 - Smoke Detector

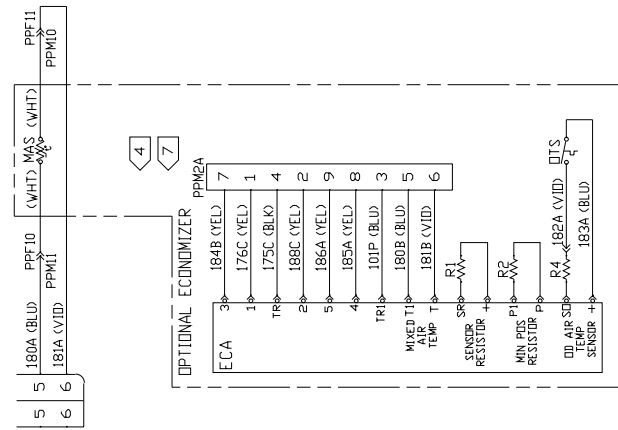
0 = No Smoke Detector  
A = Return Air Smoke Detector  
B = Supply Air Smoke Detector  
C = Supply and Return Air Smoke Detectors

## DIGIT 25 - Monitoring Controls

0 = No Monitoring Control  
1 = Clogged Filter Switch  
2 = Fan Failure Switch  
3 = Discharge Air Sensing Tube  
4 = Clogged Filter Switch and Fan Fail Switch  
5 = Clogged Filter Switch and Discharge Air Sensing Tube  
6 = Fan Fail Switch and Discharge Air Sensing Tube  
7 = Clogged Filter and Fan Fail Switches and Discharge Air Sensing Tube  
8 = Novar Return Air Sensor

**Diagram 1**  
**Power Schematic - 230v/60hz/1ph**  
**3 - 5 Ton Single Stage Gas Heat / Direct Drive Motor**  
**4366-1002**





REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	106
ECA	ECONOMIZER ACTUATOR	117-131
F	FAN RELAY	101
FD	FLAME DETECTOR	88
FDS	FDS/STAT	106
FR	FLAME ROLLOUT	93
GV	GAS VALVE	89-90
H	HEAT RELAY	83
HPCL	HIGH PRESSURE OUTOUT	106
LGN	IGNITION MODULE	86-101
IP	IGNITER	99
LRCI	LDV PRESSURE OUTOUT	106
MAS	MIXED AIR SENSOR	110
DTS	DD AIR TEMP SWITCH	130
PS	PRESSURE SWITCH	93
R1	RESISTOR 750 OHM (RED)	126
R2	RESISTOR 620 OHM (WHT)	128
R4	RESISTOR 130 OHM (GRN)	130
TC01	TEMPERATURE LIMIT SWITCH	96
TC02	TEMPERATURE LIMIT SWITCH	96
TNS1	LDV VOLTAGE TRANSFORMER	80

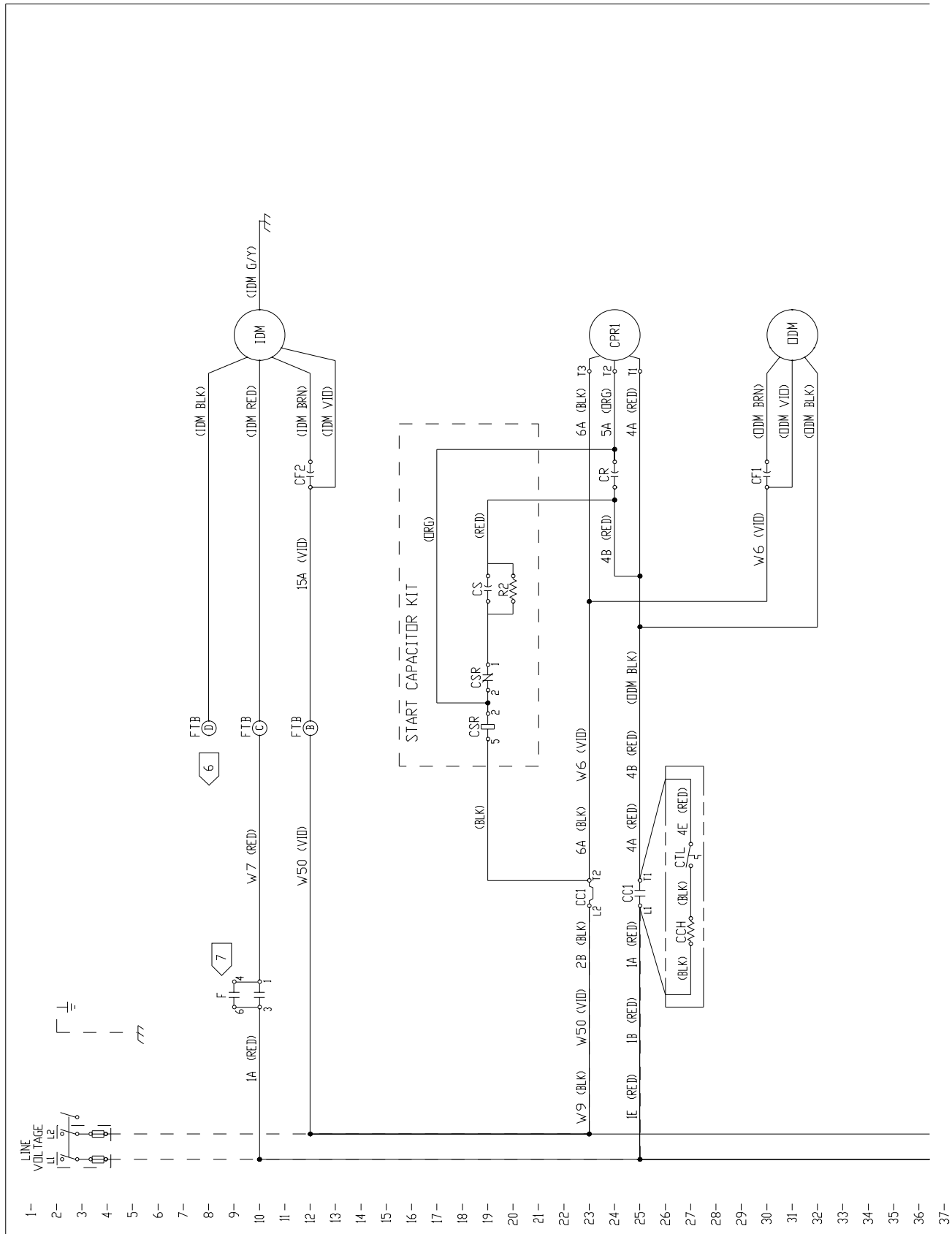
COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	DRG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VIO
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	GY/Y	YELLOW	YEL

4366-1001G

109-  
110-  
111-  
112-  
113-  
114-  
115-  
116-  
117-  
118-  
119-  
120-  
121-  
122-  
123-  
124-  
125-  
126-  
127-  
128-  
129-  
130-  
131-  
132-  
133-  
134-  
135-  
136-  
137-  
138-  
139-  
140-  
141-  
142-  
143-  
144-  
145-  
146-  
147-  
148-  
149-  
150-  
151-  
152-  
153-  
154-  
155-  
156-

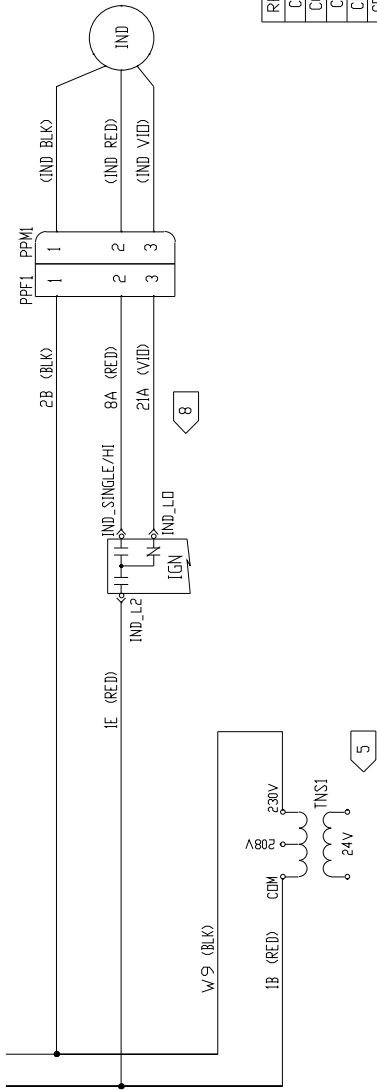
1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F) AT ATMOSPHERIC PRESSURE. AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. WHEN INSTALLING OPTIONAL ECONOMIZER, REMOVE CONFIG PLUG PPM2, AND CONNECT ECONOMIZER PLUG PPM2A TO PPF2, AND CONNECT MAS TO WIRES 180A AND 181A.
5. FUTURE CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. WHEN SINGLE-STAGE GAS HEAT IS REQUIRED, WIRE 102B IS REMOVED, WIRES 101N AND 174A ARE NOT CONNECTED TO 10N, AND WIRE 123A IS NOT CONNECTED TO GV.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL FDS AND HPCL. IF NEITHER OPTION IS INSTALLED, CONNECT PPM7 TO PPF7. IF FDS ONLY IS INSTALLED, CONNECT PPM9 TO PPF7. IF HPCL ONLY IS INSTALLED, CONNECT PPF3 TO PPM7.
7. FOR MOTORIZED OUTSIDE AIR DAMPER, OPTIONAL MAS AND DTS (AND ASSOCIATED WIRING) ARE NOT USED, AND R4 IS REMOVED BETWEEN 50 AND \*.

**Diagram 2**  
**Power Schematic - 230v/60hz/1ph**  
**2 - 5 Ton Single Stage Gas Heat / Oversize Motor**  
**4366-1018**





36-  
37-  
38-  
39-  
40-  
41-  
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-



REF	DESCRIPTION	LINE
CCI	COMPRESSOR CONTACTOR	23.25
CCH	CRANKCASE HEATER	27
CFL	OD MOTOR CAPACITOR	30
CF2	ID MOTOR CAPACITOR	12
CP1	COMPRESSOR	24
CR	CPR RUN CAPACITOR	24
CS	CPR START CAPACITOR	19
CSR	CPR START RELAY	19
CTL	COIL TEMP LIMIT SWITCH	27
F	FAN RELAY	9.10
FTB	FAN TERMINAL BLOCK	8.10.12
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	40.41
IND	INDUCER MOTOR	40
ODM	OD FAN MOTOR	31
R2	CPR START RESISTOR	20
TNS1	LOW VOLTAGE TRANSFORMER	45

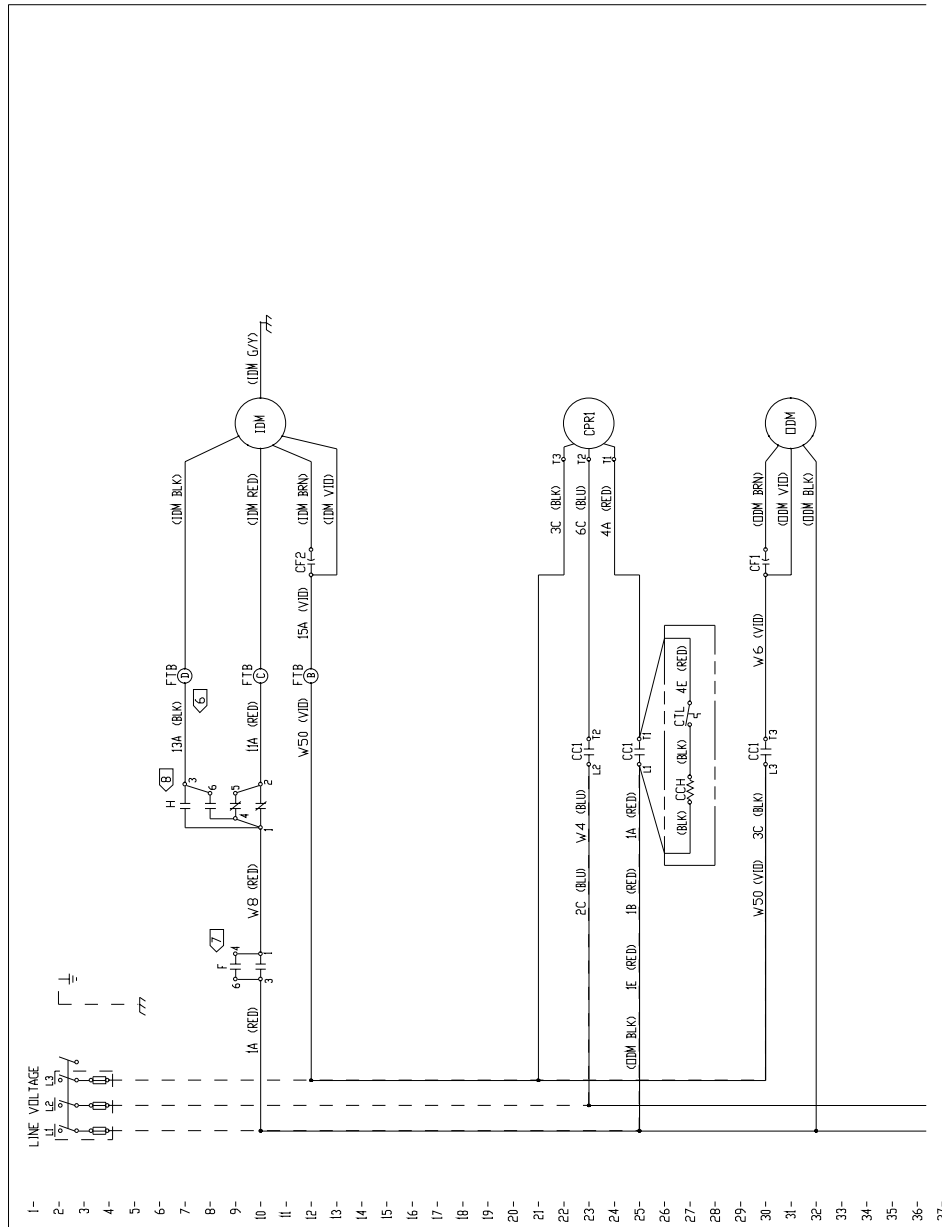
COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	ORG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VIO
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

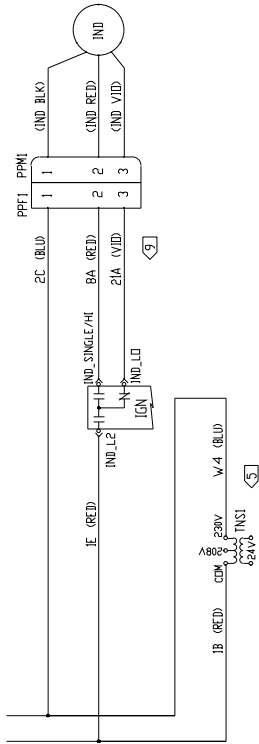
- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F) AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
- DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.

- CONNECTIONS SHOWN ARE FOR 230V/60HZ/1PH UNITS. WHEN 208V/60HZ/1PH OPERATION IS REQUIRED, MOVE WIRE W9 (BLK) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION. WHEN HIGH SPEED OPERATION IS REQUIRED, MOVE WIRE W7 FROM FTB-C TO FTB-D.
- CONNECTIONS SHOWN ARE FOR 4 AND 5 TON UNITS. FOR 3 TON UNITS (AND BELOW), THERE ARE NO FAN RELAY (F) JUMPERS FROM PIN 3 TO PIN 6 OR FROM PIN 1 TO PIN 4.
- (FUTURE) CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. IF SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A(VID) IS NOT CONNECTED TO IGN AND WIRE (IND VID) IS NOT PRESENT.

<p><b>⚠ WARNING</b></p> <p>HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.</p>	<p><b>⚠ AVERTISSEMENT</b></p> <p>VOLTAJE HASARDEUX! DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS L'ENTRETIEN. FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT DEFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.</p>
<p><b>⚠ CAUTION</b></p> <p>USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.</p>	<p><b>⚠ IMPORTANT!</b></p> <p>DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.</p>

**Diagram 3**  
**Power Schematic - 230v/60hz/3ph**  
**2 - 5 Ton Single Stage Gas Heat / Direct Drive Motor**  
**4366-1000**





REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	23,25,30
CCH	CRANKCASE HEATER	27
CF1	OD MOTOR CAPACITOR	30
CF2	ID MOTOR CAPACITOR	12
CPH1	COMPRESSOR	23
CTL	COIL TEMP LIMIT SWITCH	27
F	FAN RELAY	9,10
FTB	FAN TERMINAL BLOCK	7,10,12
H	HEAT RELAY	7-10
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	40
IND	INDUCER MOTOR	40
IDM	ID FAN MOTOR	31
TNS1	LDW VOLTAGE TRANSFORMER	45

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	DRG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VID
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F) AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
- DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSEURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSEURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION (COOLING) AND HIGH SPEED OPERATION (HEATING). WHEN HIGH SPEED COOLING IS REQUIRED, MOVE WIRE 11A FROM FTB-C TO FTB-D.
- CONNECTIONS SHOWN ARE FOR 4 AND 5 TON UNITS. FOR 3 TON UNITS (AND BELOW), THERE ARE NO FAN RELAY (F) JUMPERS FROM PIN 1 TO PIN 4 OR FROM PIN 3 TO PIN 6.
- CONNECTIONS SHOWN ARE FOR 4 AND 5 TON UNITS. FOR 3 TON UNITS (AND BELOW), THERE ARE NO HEAT RELAY (H) JUMPERS FROM PIN 1 TO PIN 4, PIN 3 TO PIN 6, OR PIN 2 TO PIN 5.
- FUTURE CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS OPERATION. WHEN SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A (VID) IS NOT CONNECTED TO IGN, AND WIRE (IND VID) IS NOT PRESENT.

**⚠ WARNING**  
HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

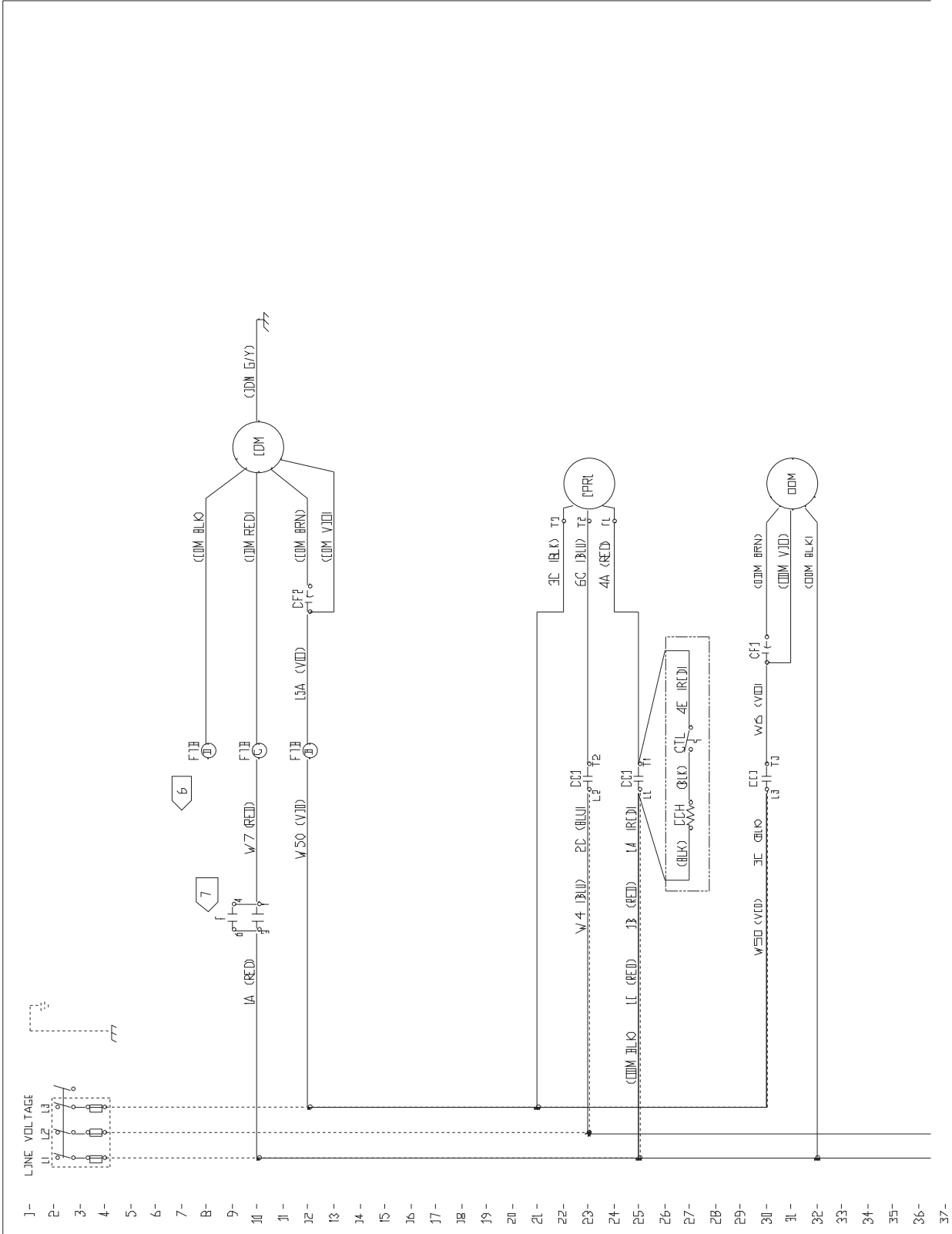
**⚠ AVERTISSEMENT**  
VOLTAGE HAZARDEUX!  
DÉCONNECTEZ TOUTES LES SOURCES ÉLECTRIQUES INCLUANT LES DISJONCTEURS SÉPARÉS À DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.  
FAUTE DE DÉCONNECTER LA SOURCE ÉLECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SÈVÈRES OU LA MORT.

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

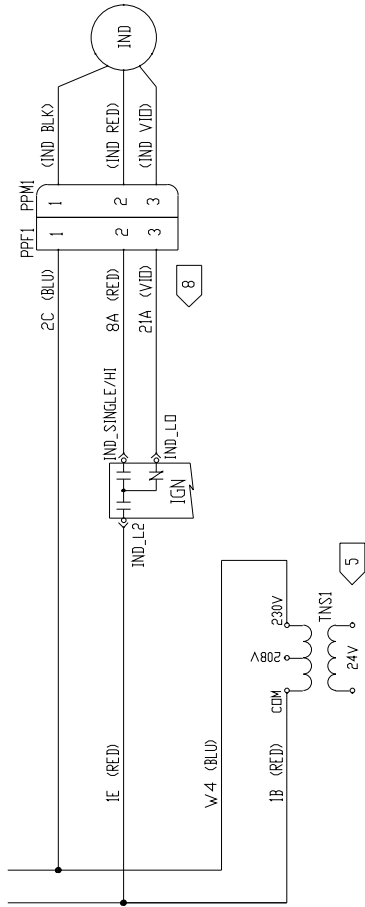
4366-1000 E

# Diagram 4

Power Schematic - 230v/60hz/3ph  
 2 - 5 Ton Single Stage Gas Heat / Oversize Motor  
 4366-1017



36—  
37—  
38—  
39—  
40—  
41—  
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—



1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F) AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
5. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W-4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
6. CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION. WHEN HIGH SPEED OPERATION IS REQUIRED, MOVE WIRE W-7 FROM FTB-C TO FTB-D.
7. CONNECTIONS SHOWN ARE FOR 4 AND 5 TON UNITS. FOR 3 TON UNITS (AND BELOW), THERE ARE NO FAN RELAY (F) JUMPERS FROM PIN 3 TO PIN 6 OR FROM PIN 1 TO PIN 4.
8. (FUTURE) CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. IF SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A(VID) IS NOT CONNECTED TO IGN AND WIRE (IND VID) IS NOT PRESENT.

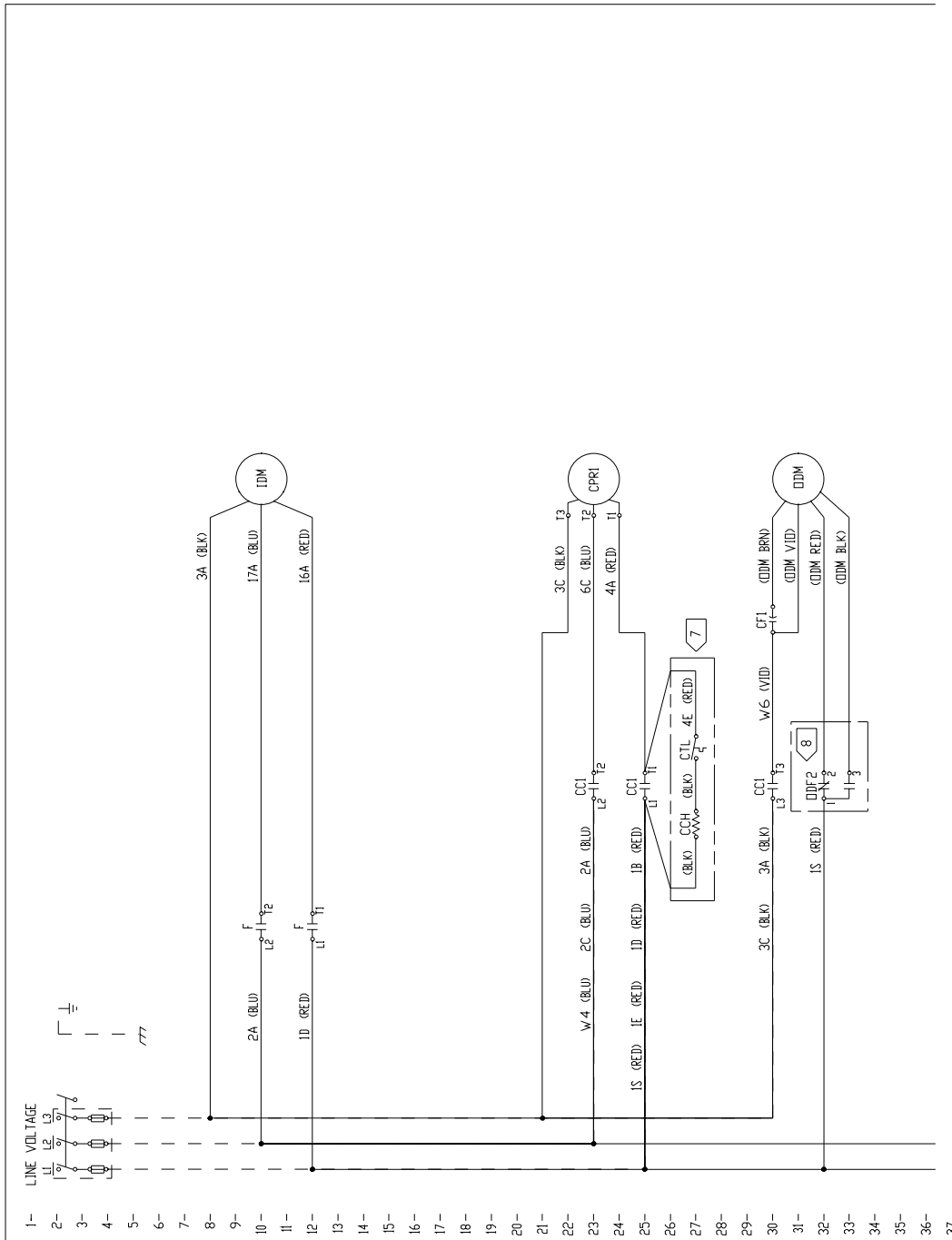
REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	23,25,30
CCH	CRANKCASE HEATER	27
CF1	OD MOTOR CAPACITOR	30
CF2	ID MOTOR CAPACITOR	12
CPRI	COMPRESSOR	23
CTL	COIL TEMP LIMIT SWITCH	27
F	FAN RELAY	9,10
FTB	ID FAN TERMINAL BLOCK	8,10,12
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	40,41
IND	INDUCER MOTOR	40
IDM1	ID FAN MOTOR	31
TNS1	LOW VOLTAGE TRANSFORMER	45

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	ORG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VID
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

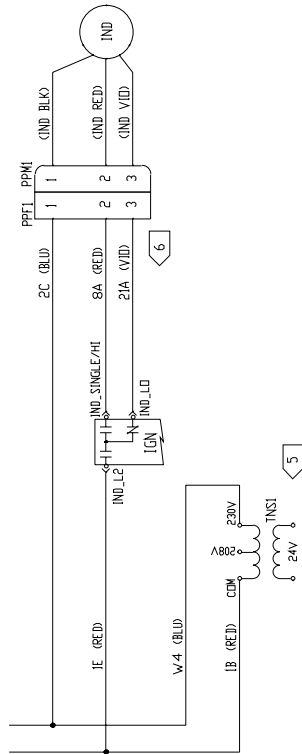
**IMPORTANT!**  
DO NOT ENERGIZE UNIT  
UNTIL CHECK-OUT AND  
START-UP PROCEDURE HAS  
BEEN COMPLETED.

⚠ WARNING	⚠ AVERTISSEMENT	⚠ CAUTION
HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.	VOLTAGE HAZARDEUX! DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES, INCLANT LES DISJONCTEURS L'ENTRETIEN. FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.	USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**Diagram 5**  
**Power Schematic - 230v/60hz/3ph**  
**2 - 7.5 Ton Gas Heat / Belt Drive or Oversize Motor**  
**4366-1016**



36-  
37-  
38-  
39-  
40-  
41-  
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-



1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25% C (77% F) AT ATMOSPHERIC PRESSURE. AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN, HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE, ENCLUSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLUSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
5. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
6. CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS OPERATION, WHEN SINGLE-STAGE OPERATION IS REQUIRED. WIRE 21A (YLD) IS NOT CONNECTED TO IGN, AND WIRE (IND YLD) IS NOT PRESENT.
7. CONNECTIONS SHOWN ARE FOR 5-TON AND SMALLER UNITS. FOR UNITS GREATER THAN 5-TON, CTL AND WIRE 4E (RED) ARE NOT PRESENT, AND CCH WIRES ARE CONNECTED TO CCH-L1 AND CCH-L1.
8. CONNECTIONS SHOWN ARE FOR DEHUMIDIFICATION OPTION (2-SPEED CDM). FOR 1-SPEED CDM, WIRES TO CCH-L1, (IND RED) AND COMPONENT DDF2 ARE NOT PRESENT AND (CDM BLK) IS CONNECTED TO CCH-L1.

REF	DESCRIPTION	LINE
CCI	COMPRESSOR CONTACTOR	23,25,30
CCH	CRANKCASE HEATER	27
CFI	OD MOTOR CAPACITOR	30
CPRI	COMPRESSOR	23
CTL	COIL TEMP LIMIT SWITCH	27
F	FAN CONTACTOR	10,12
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	40,41
IND	INDUCER MOTOR	40
DDF2	DD FAN SPEED RELAY	32,33
DDM	DD FAN MOTOR	31
TNS1	LDW VOLTAGE TRANSFORMER	45

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	ORG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VIO
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

**⚠ WARNING**  
HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER, DEENERGIZE UNIT, AND DISCONNECT, ISOLATE AND LABEL ALL ELECTRICAL TERMINALS BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

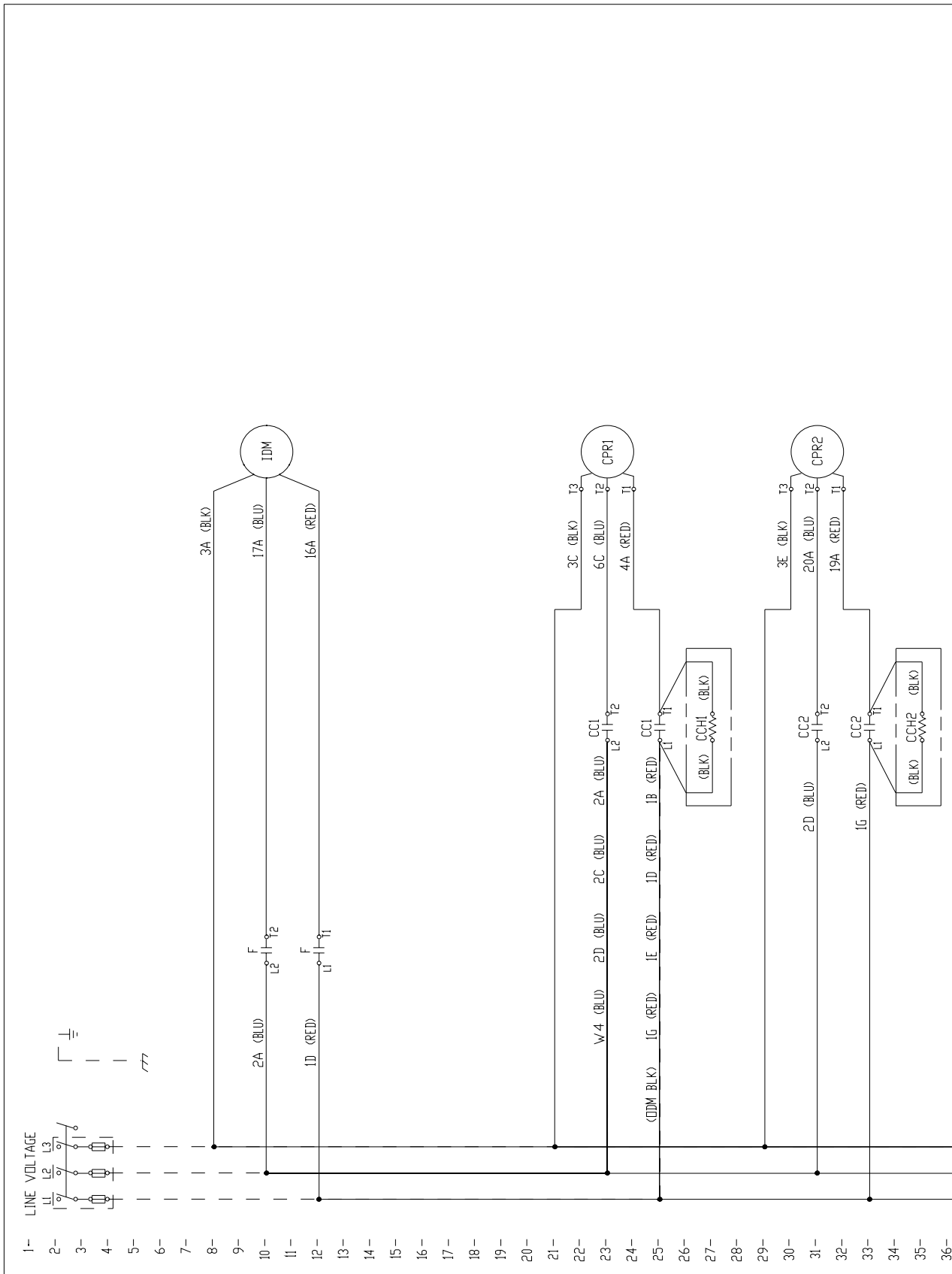
**⚠ AVERTISSEMENT**  
VOLTAGE HASARDEUX!  
DECONNECTEZ TOUTES LES SOURCES D'ÉLECTRICITÉ, DÉBRANCHER, ISOLER ET ÉTIQUETER LES TERMINAUX ÉLECTRIQUES AVANT D'EFFECTUER L'ENTRETIEN.  
FAUTE DE DÉCONNECTER LA SOURCE ÉLECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**⚠ CAUTION**  
USE COPPER CONDUCTORS ONLY!  
UNIT TERMINALS ARE NOT DESIGNED FOR OTHER TYPES OF CONDUCTORS.  
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

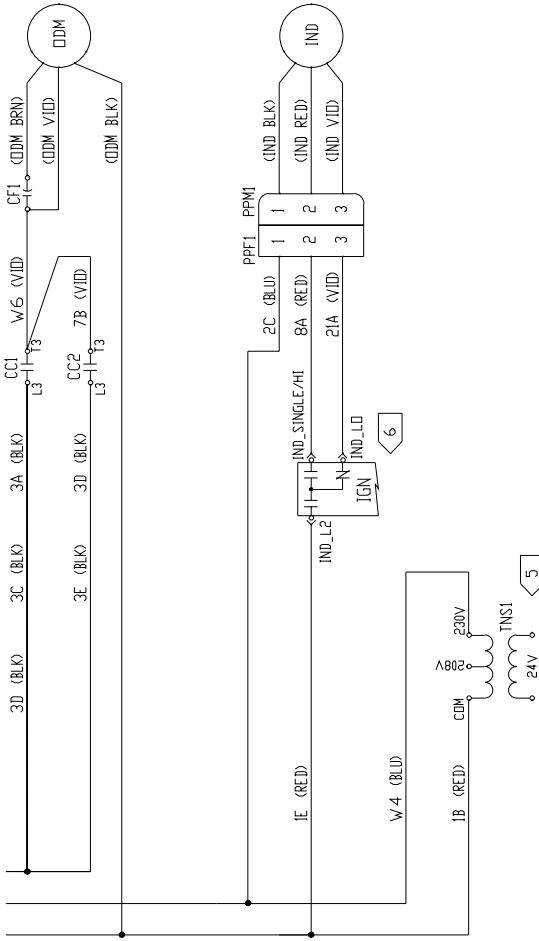
**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND STARTUP PROCEDURE HAS BEEN COMPLETED.

# Diagram 6

Power Schematic - 230v/60hz/3ph  
 7.5 - 10 Ton Gas Heat / Dual Compressor  
 4366-1033







REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR 1	23,25,37
CC2	COMPRESSOR CONTACTOR 2	31,33,39
CCH1	CRANKCASE HEATER 1	27
CCH2	CRANKCASE HEATER 2	35
CF1	DD FAN CAPACITOR	37
CPR1	COMPRESSOR 1	23
CPR2	COMPRESSOR 2	31
F	FAN CONTACTOR	10,12
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	46,47
IND	INDUCER MOTOR	46
DDM	DD FAN MOTOR	38
TNS1	LOW VOLTAGE TRANSFORMER	51

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	DRG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VID
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F) AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
- DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE-PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLD) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS OPERATION. WHEN SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A (VID) IS NOT CONNECTED TO IGN, AND WIRE GND VID IS NOT PRESENT.

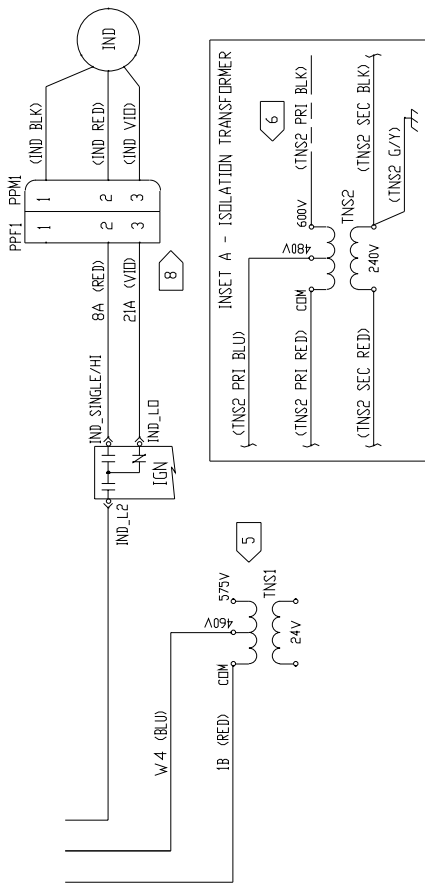
⚠ WARNING	⚠ AVERTISSEMENT
HAZARDOUS VOLTAGE	VOLTAGE HASARDEUX!
DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.	DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES, INCLUANT LES DISJONCTEURS L'ENTRETIEN.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.	FAUTE DE DECONNECTEZ LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

⚠ CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



39-  
40-  
41-  
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-



1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- 5 CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 575V TERMINAL.
- 6 CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE (TNS2 PRI BLU) FROM CCI-L2 AND CONNECT WIRE (TNS2 PRI BLK) TO CCI-L2.
- 7 CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION (COOLING) AND HIGH SPEED OPERATION (HEATING). WHEN HIGH SPEED COOLING IS REQUIRED, REMOVE WIRE 14A(ORG) FROM FTB-E AND TAPE, AND MOVE WIRE 14A(RED) FROM FTB-C TO FTB-D.
- 8 (FUTURE) CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. WHEN SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A(VID) IS NOT CONNECTED TO IGN AND WIRE (IND VID) IS NOT PRESENT.

REF	DESCRIPTION	LINE
CCI	COMPRESSOR CONTACTOR	17-19-31
CCH	CRANKCASE HEATER	21
CF1	ID MOTOR CAPACITOR	31
CF2	ID MOTOR CAPACITOR	12
CPRI	COMPRESSOR	17
CTL	COIL TEMP LIMIT SWITCH	21
F	FAN RELAY	10
FTB	FAN TERMINAL BLOCK	6-12
H	HEAT RELAY	6-10
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	41-42
IND	INDUCER MOTOR	41
IDM	ID FAN MOTOR	32
TNS1	LOW VOLTAGE TRANSFORMER	45-47
TNS2	INDUCER AUTO TRANSFORMER	37-38

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	ORG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VID
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

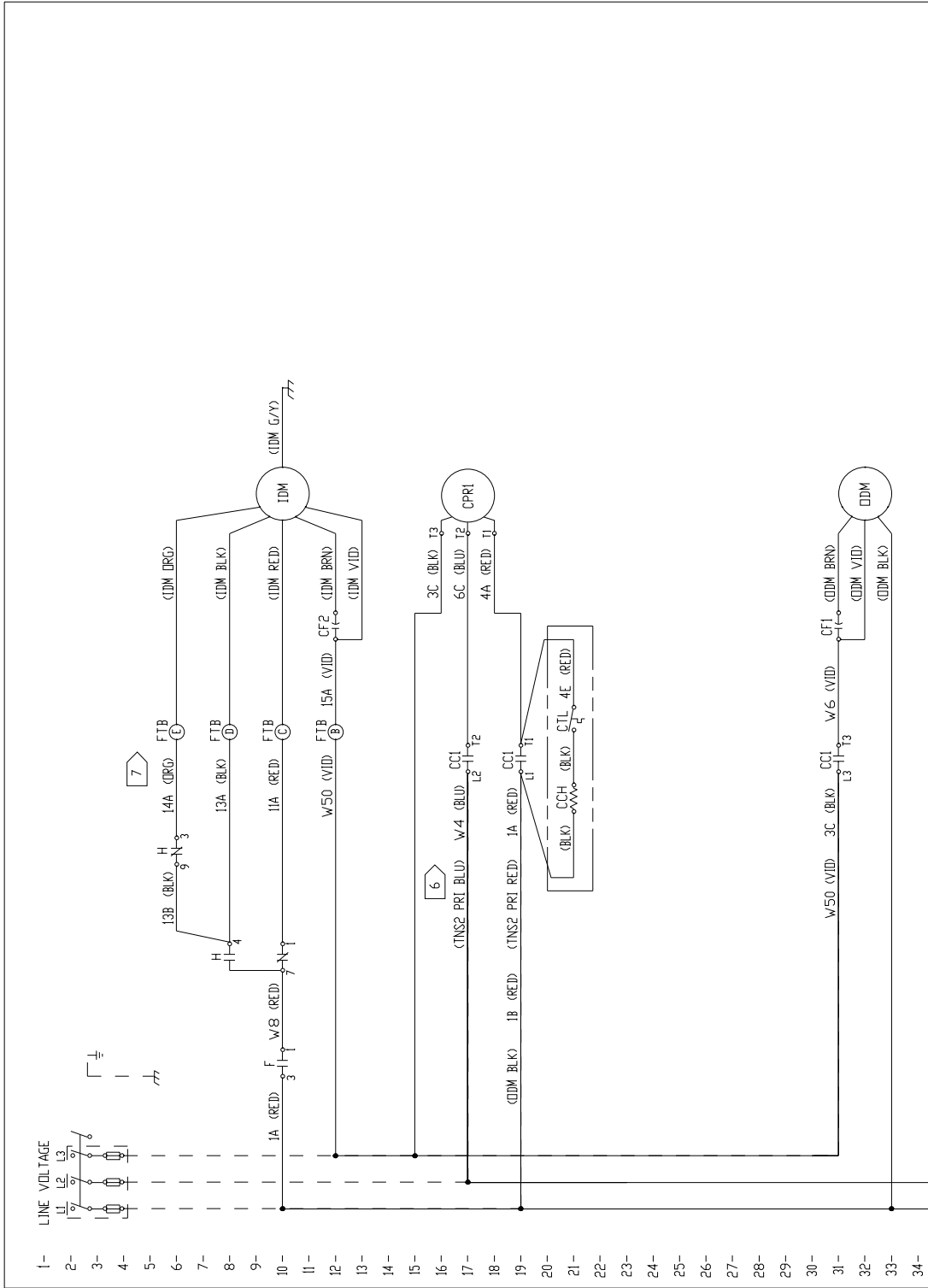
**CAUTION**  
USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.  
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**AVERTISSEMENT**  
VOLTAGE HASARDEUX!  
DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.  
FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

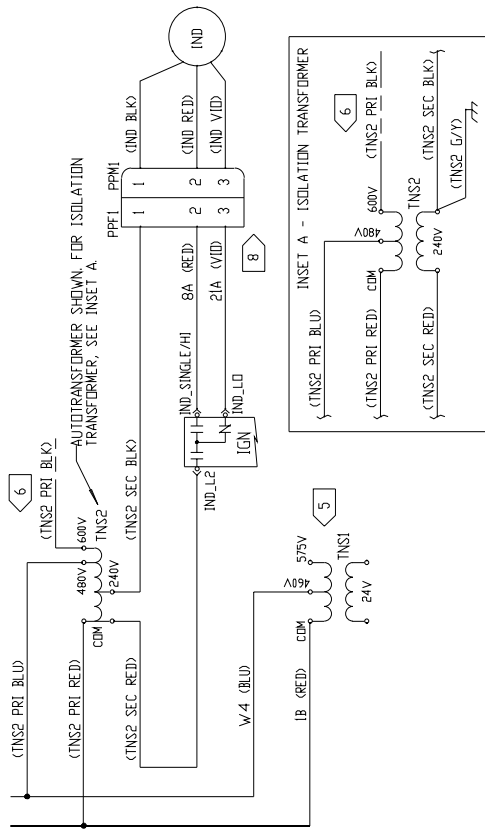
**WARNING**  
HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

# Diagram 8

Power Schematic - 460-575v/60hz/3ph  
 4 - 5 Ton Single Stage Gas Heat / Direct Drive Motor  
 4366-1032



34-  
35-  
36-  
37-  
38-  
39-  
40-  
41-  
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-



1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F) AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- 5 CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 575V TERMINAL.
- 6 CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE (TNS2 PRI BLU) FROM CCI-L2 AND CONNECT WIRE (TNS2 PRI BLK) TO CCI-L2.
- 7 CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION (COOLING) AND HIGH SPEED OPERATION (HEATING). WHEN HIGH SPEED COOLING IS REQUIRED, REMOVE WIRE 14A(BRD) FROM FTB-E AND TAPE, AND MOVE WIRE 14A(RED) FROM FTB-C TO FTB-D.
- 8 (FUTURE) CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. WHEN SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A(VID) IS NOT CONNECTED TO IGN AND WIRE (IND VID) IS NOT PRESENT.

REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	17/19, 31
CCH	CRANKCASE HEATER	21
CF1	OD MOTOR CAPACITOR	31
CF2	ID MOTOR CAPACITOR	12
CPRI	COMPRESSOR	17
CTL	COIL TEMP LIMIT SWITCH	21
F	FAN RELAY	10
FTB	FAN TERMINAL BLOCK	6-12
H	HEAT RELAY	6-10
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	41-42
IND	INDUCER BLOWER	41
IDM	ID FAN MOTOR	32
TNS1	LOW VOLTAGE TRANSFORMER	45-47
TNS2	INDUCER AUTOTRANSFORMER	37-38

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	ORG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VIO
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

**⚠ WARNING**

HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**⚠ AVERTISSEMENT**

VOLTAGE HASARDEUX!  
DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES, INCLUANT LES DISJONCTEURS SITUES A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.  
FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

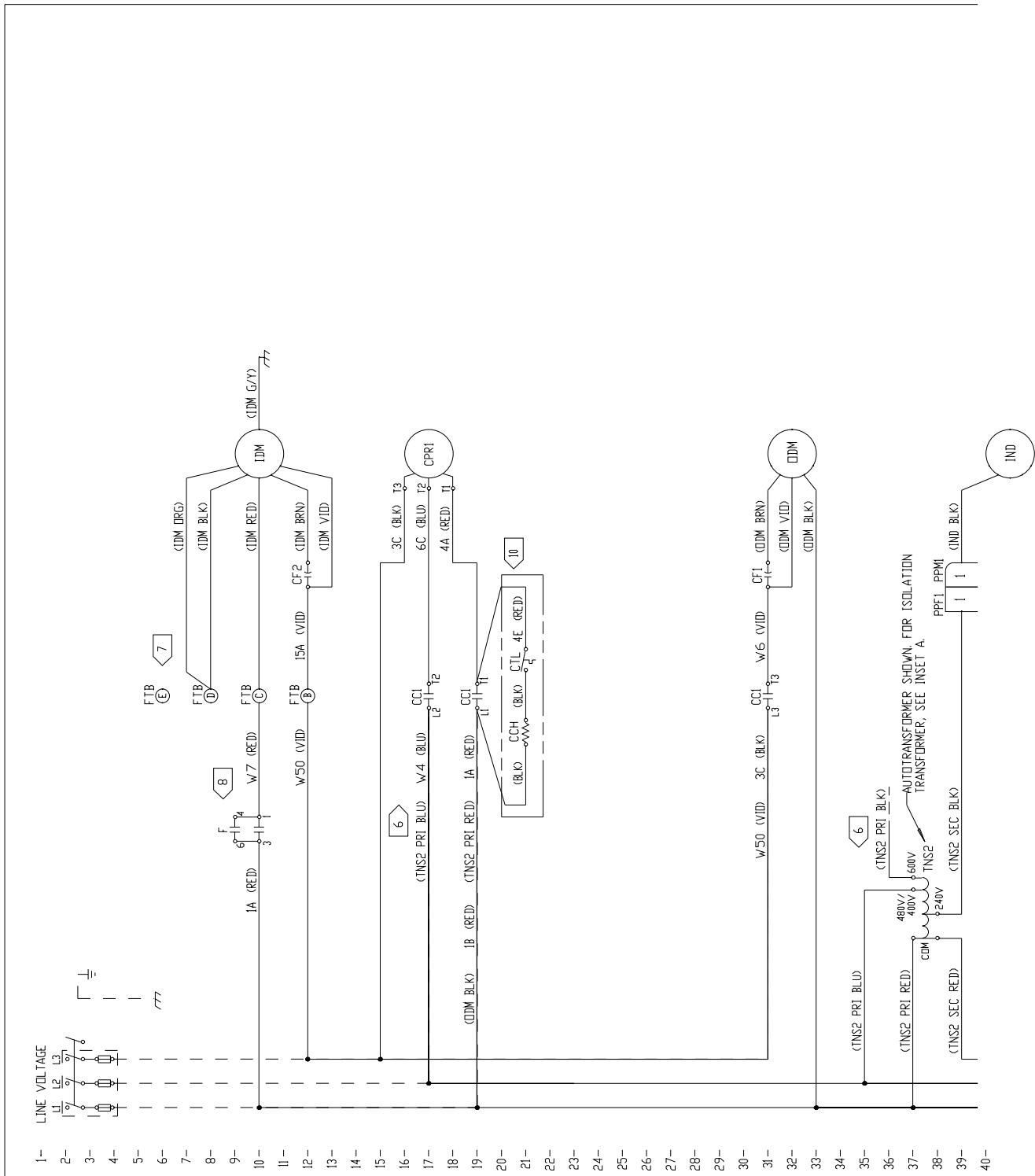
**⚠ CAUTION**

USE COPPER CONDUCTORS ONLY!  
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.  
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**IMPORTANT!**

DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

**Diagram 9**  
**Power Schematic - 460-575v/60hz/3ph**  
**4 - 5 Ton Single Stage Gas Heat / Oversize Motor**  
**4366-1011**



39-

40-

41-

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-

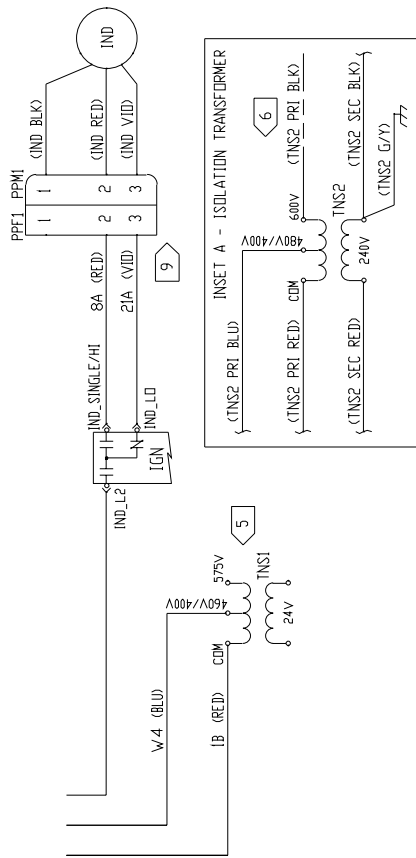
74-

75-

76-

77-

78-



1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
5. CONNECTIONS SHOWN ARE FOR 380V/60HZ/3PH AND 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 575V TERMINAL.
6. CONNECTIONS SHOWN ARE FOR 380V/60HZ/3PH AND 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE (TNS2 PRI BLU) FROM CCI-L2 AND CONNECT WIRE (TNS2 PRI BLK) TO CCI-L2.
7. CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION. WHEN HIGH SPEED OPERATION IS REQUIRED, MOVE WIRE (DM DRG) FROM FTB-D TO FTB-E AND MOVE WIRE W7(RED) FROM FTB-C TO FTB-D.
8. CONNECTIONS SHOWN ARE FOR 4 AND 5 TON UNITS. FOR 3 TON UNITS (AND BELOW) THERE ARE NO FAN RELAY (F) JUMPERS FROM PIN 3 TO PIN 6 OR FROM PIN 1 TO PIN 4.
9. (FUTURE) CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. IF SINGLE-STAGE OPERATION IS REQUIRED, DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, WIRE 21A(VID) IS NOT CONNECTED TO IGN AND WIRE (IND VID) IS NOT PRESENT.
10. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH AND 575V/60HZ/3PH UNITS. FOR 380V/60HZ/3PH UNITS, CCH, CTL, AND WIRE 4E(RED) ARE NOT PRESENT.

REF	DESCRIPTION	LINE
CCI	COMPRESSOR CONTACTOR	17/19/31
CCH	CRANKCASE HEATER	21
CF1	ID MOTOR CAPACITOR	31
CF2	ID MOTOR CAPACITOR	12
CPRI	COMPRESSOR	17
CTL	COIL TEMP LIMIT SWITCH	21
F	FAN RELAY	9-10
FTB	ID FAN TERMINAL BLOCK	6-12
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	41-42
IND	INDUCER MOTOR	41
ODM	OD FAN MOTOR	32
TNS1	LOW VOLTAGE TRANSFORMER	45-47
TNS2	INDUCER AUTOTRANSFORMER	37-38

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	DRG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VIO
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

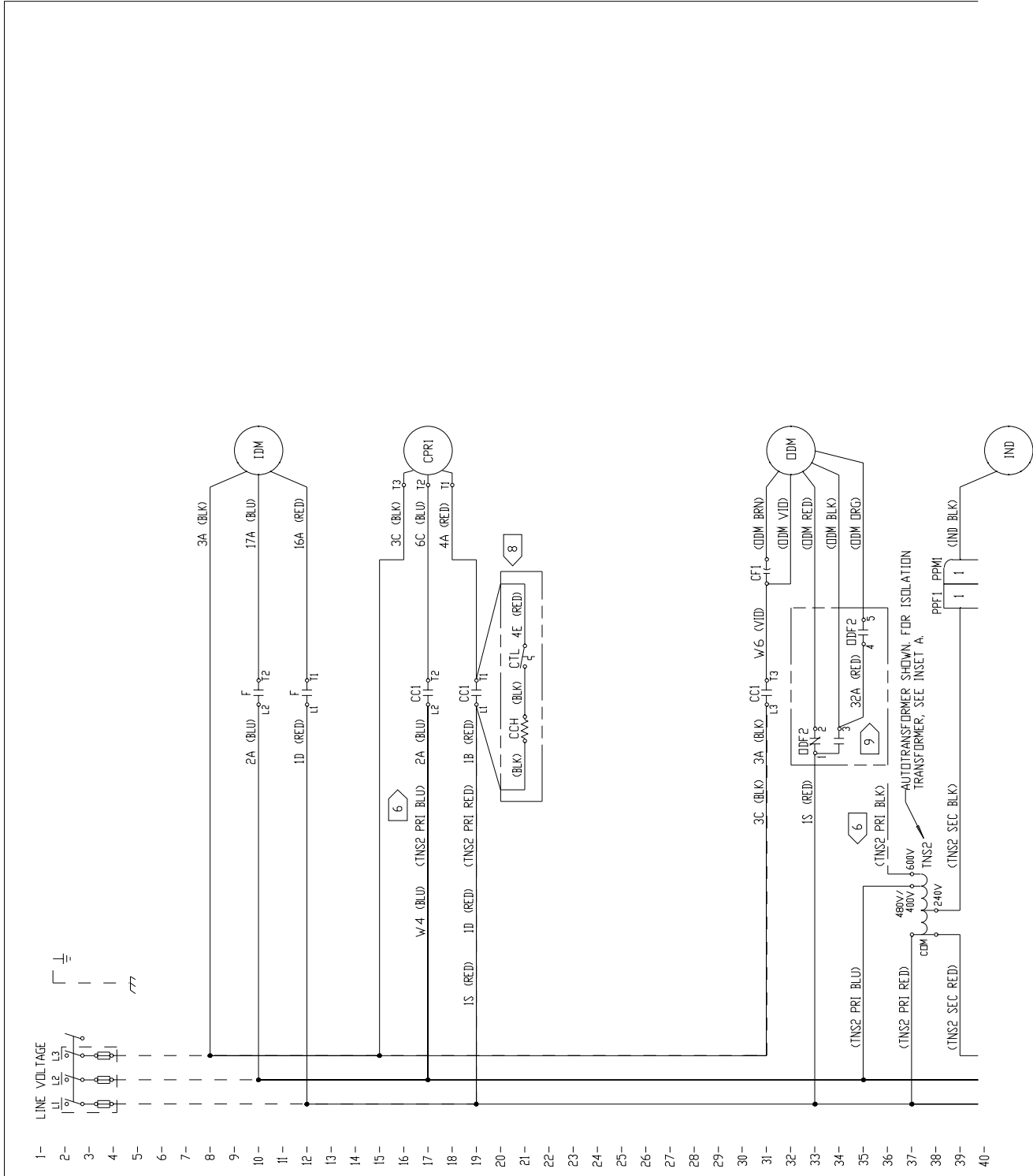
**CAUTION**  
USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.  
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**AVERTISSEMENT**  
VOLTAJE HAZARDEUX!  
DESCONECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUES A DISTANCE AVANT DEFFECTUER L'ENTRETIEN.  
FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT DEFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**WARNING**  
HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

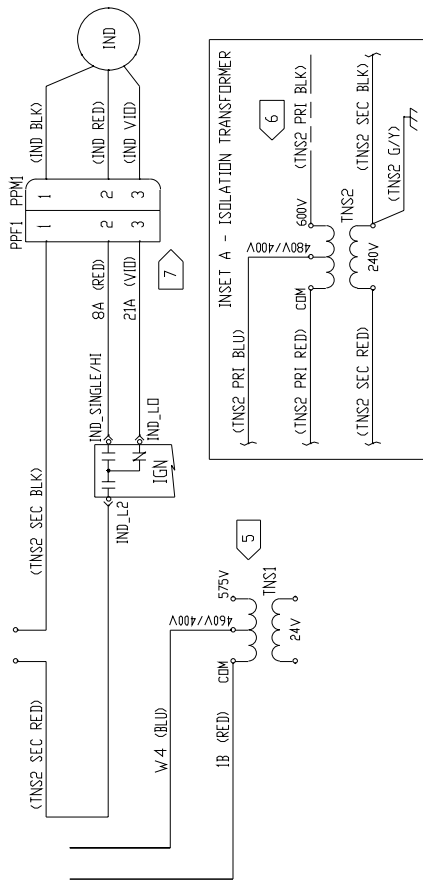
# Diagram 10

Power Schematic - 460,575v/60hz/3ph  
 2 - 7.5 Ton Gas Heat / Belt Drive Motor  
 4366-1005





38-  
39-  
40-  
41-  
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-



REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	17/19,31
CCH	CRANKCASE HEATER	21
CF1	OD MOTOR CAPACITOR	31
CPRI	COMPRESSOR	17
CTL	COIL TEMP LIMIT SWITCH	21
F	FAN CONTACTOR	10,12
IDM	ID FAN MOTOR	10
IGN	IGNITION MODULE	41-42
IND	INDUCER MOTOR	41
ODF2	OD FAN SPEED RELAY	33-35
DDM	DD FAN MOTOR	32
TNS1	LOW VOLTAGE TRANSFORMER	45-47
TNS2	INDUCER AUTOTRANSFORMER	37-38

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	DRG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VIO
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE. AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
- DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- CONNECTIONS SHOWN ARE FOR 380-415V/50HZ/3PH, 380V/60HZ/3PH, AND 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 575V TERMINAL.
- CONNECTIONS SHOWN ARE FOR 380-415V/50HZ/3PH, 380V/60HZ/3PH, AND 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE (TNS2 PRI BLU) FROM CCI-L2 AND CONNECT WIRE (TNS2 PRI BLK) TO CCI-L2.
- CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. WHEN SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A(VID) IS NOT CONNECTED, AND WIRE (IND VID) IS NOT PRESENT.
- THESE CONNECTIONS ARE FOR UNITS WITH A CRANKCASE HEATER INSTALLED. FOR 5-TON AND SMALLER UNITS, CONNECT AS SHOWN. FOR UNITS LARGER THAN 5-TON, CTL AND WIRE 4E(RED) ARE NOT PRESENT, AND CCH WIRES ARE CONNECTED TO CCI-L1 AND CCI-T1.
- CONNECTIONS SHOWN ARE FOR DEHUMIDIFICATION OPTION (2-SPEED ODM). FOR 1-SPEED ODM, WIRES 1S(RED), 32A(RED), (ODM RED), (ODM DRG), AND COMPONENT ODF2 ARE NOT PRESENT AND WIRE (ODM BLK) IS CONNECTED TO CCI-L1.

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

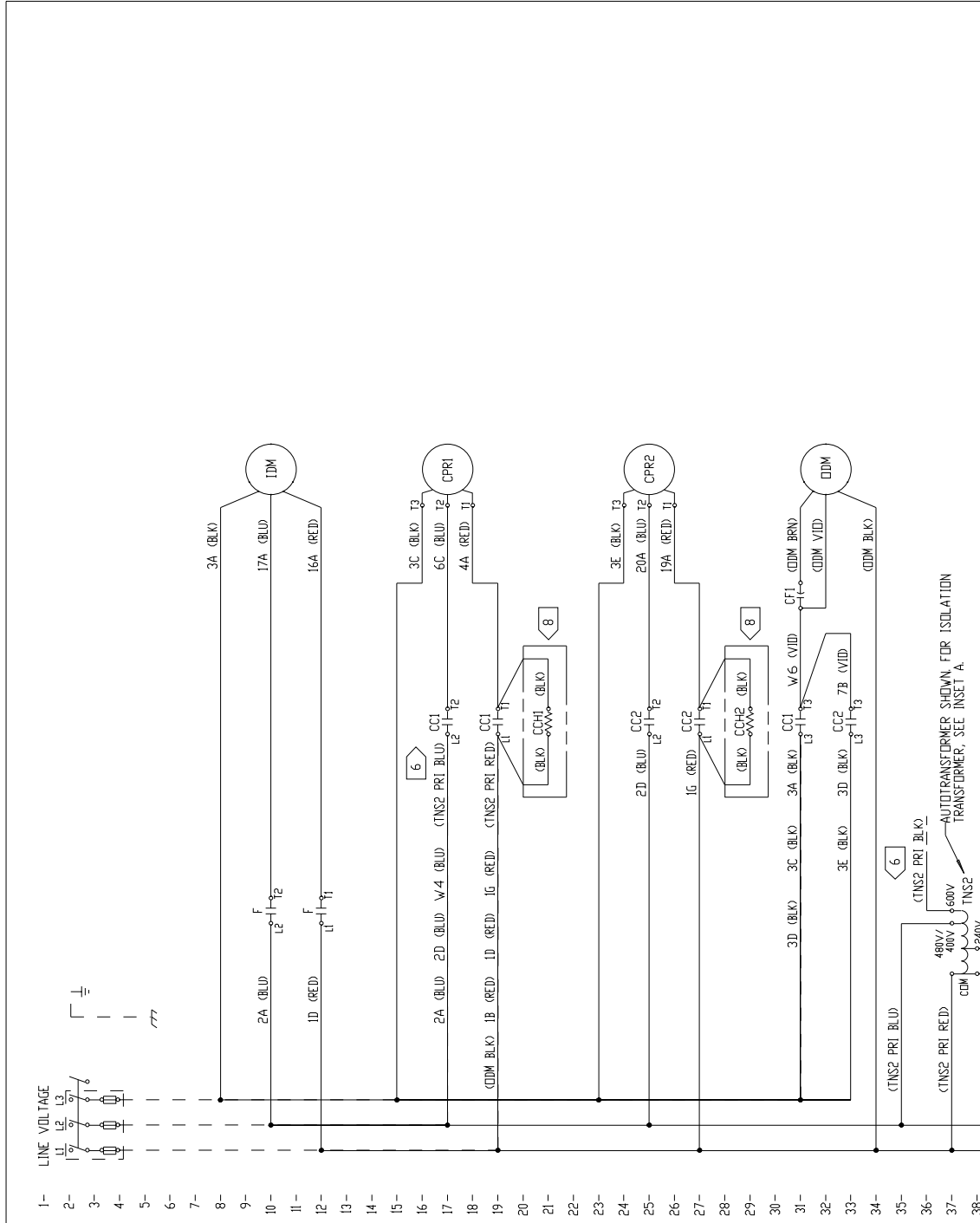
**CAUTION**  
USE COPPER CONDUCTORS ONLY!  
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.  
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

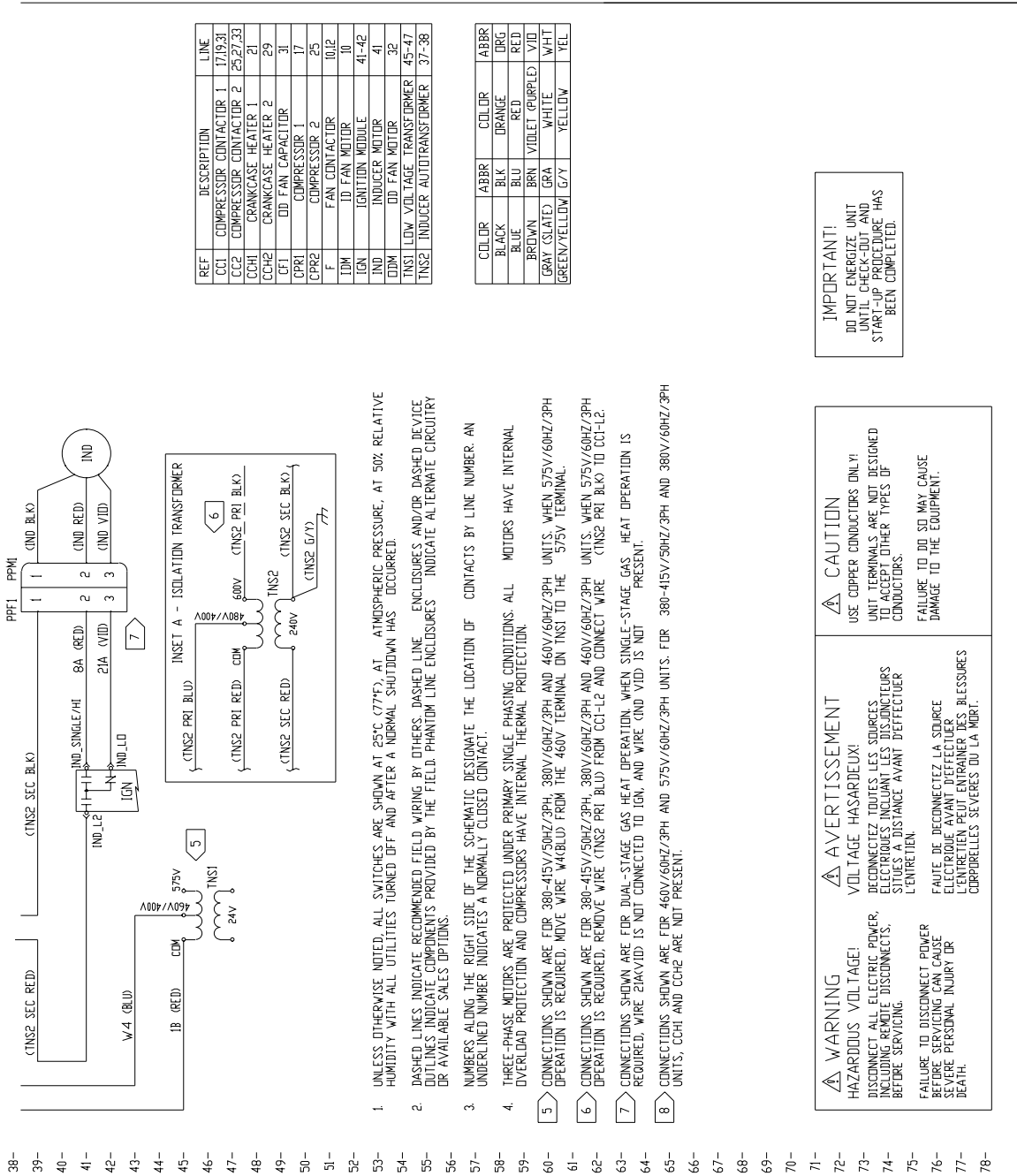
**AVERTISSEMENT**  
VOLTAGE HASARDEUX!  
DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS L'ENTREE EN SERVICE.  
FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**WARNING**  
HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER, INCLUDING REBITE DISCONNECTS, BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

# Diagram 11

Power Schematic - 460,575v/60hz/3ph  
 7.5 - 10 Ton Gas Heat / Belt Drive Motor  
 4366-1034





REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR 1	17,19,31
CC2	COMPRESSOR CONTACTOR 2	25,27,33
CCH1	CRANKCASE HEATER 1	21
CCH2	CRANKCASE HEATER 2	29
CF1	EDD FAN CAPACITOR	31
CPR1	COMPRESSOR 1	17
CPR2	COMPRESSOR 2	25
F	FAN CONTACTOR	10,12
FM	ID FAN MOTOR	10
IGN	IGNITION MODULE	41-42
IND	INDUCER MOTOR	41
EDM	ID FAN MOTOR	32
TNS1	LOW VOLTAGE TRANSFORMER	45-47
TNS2	INDUCER AUTO TRANSFORMER	37-38

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	DRG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VIO
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
- DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- CONNECTIONS SHOWN ARE FOR 380-415V/50HZ/3PH, 380V/60HZ/3PH AND 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 575V TERMINAL.
- CONNECTIONS SHOWN ARE FOR 380-415V/50HZ/3PH, 380V/60HZ/3PH AND 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE (TNS2 PRI BLU) FROM CCI-L2 AND CONNECT WIRE (TNS2 PRI BLK) TO CCI-L2.
- CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. WHEN SINGLE-STAGE GAS HEAT OPERATION IS REQUIRED, WIRE 21A(VID) IS NOT CONNECTED TO IGN, AND WIRE (IND VID) IS NOT PRESENT.
- CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH AND 575V/60HZ/3PH UNITS. FOR 380-415V/50HZ/3PH AND 380V/60HZ/3PH UNITS, CCH1 AND CCH2 ARE NOT PRESENT.

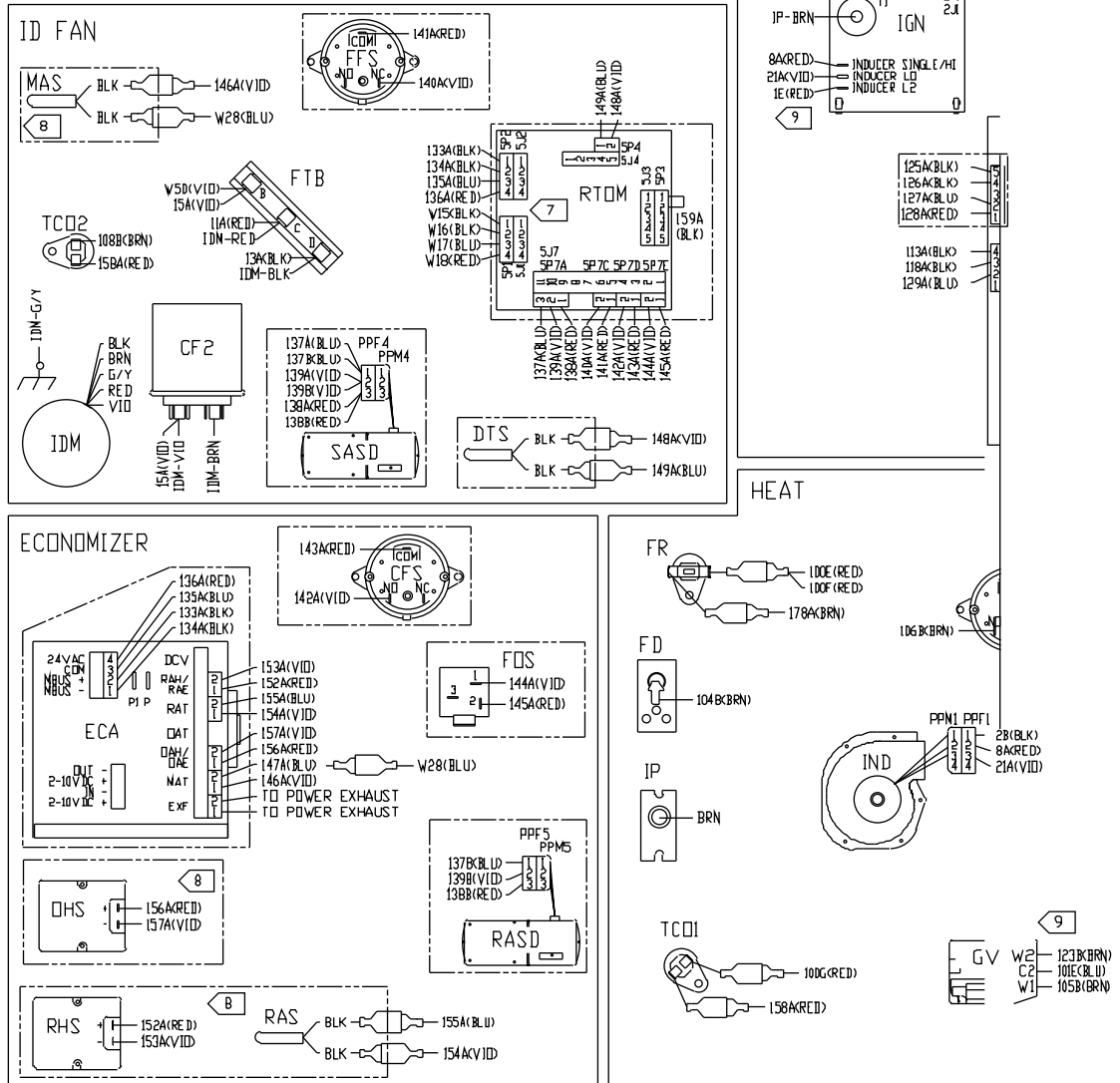
<p><b>⚠ WARNING</b> HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER, INCLUDING BEHIND DISCONNECTS, BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.</p>	<p><b>⚠ AVERTISSEMENT</b> VOLTAGE HASARDEUX! DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES, Y COMPRIS LES DISCONNECTS, AVANT LE TRAVAIL. L'ENTRETIEN. FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPORELLES SEVERES OU LA MORT.</p>	<p><b>⚠ CAUTION</b> USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.</p>
---	---	--

# Diagram 12

## Connection Schematic - 230v/60hz/1ph 3 - 5 Ton Single Stage Gas Heat / Direct Drive 4366-1501

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/1PH UNITS. WHEN 208V/60HZ/1PH OPERATION IS REQUIRED, MOVE WIRE W9 (BLK) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTM.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPCI. IF HPCI IS NOT INSTALLED, CONNECT V23(YEL) TO 122A(YEL).
7. CONNECTIONS SHOWN INCLUDE OPTIONAL RTDM. IF RTDM IS NOT INSTALLED, CONNECT 5P1 AND 5P2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
8. OPTIONAL MAS, RAS, RHS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. (FUTURE OPTION) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21A IS NOT CONNECTED TO IGN. WIRE 123B IS NOT CONNECTED TO GV. WIRE 129A (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105B IS CONNECTED TO GV-M1 (NOT SHOWN).

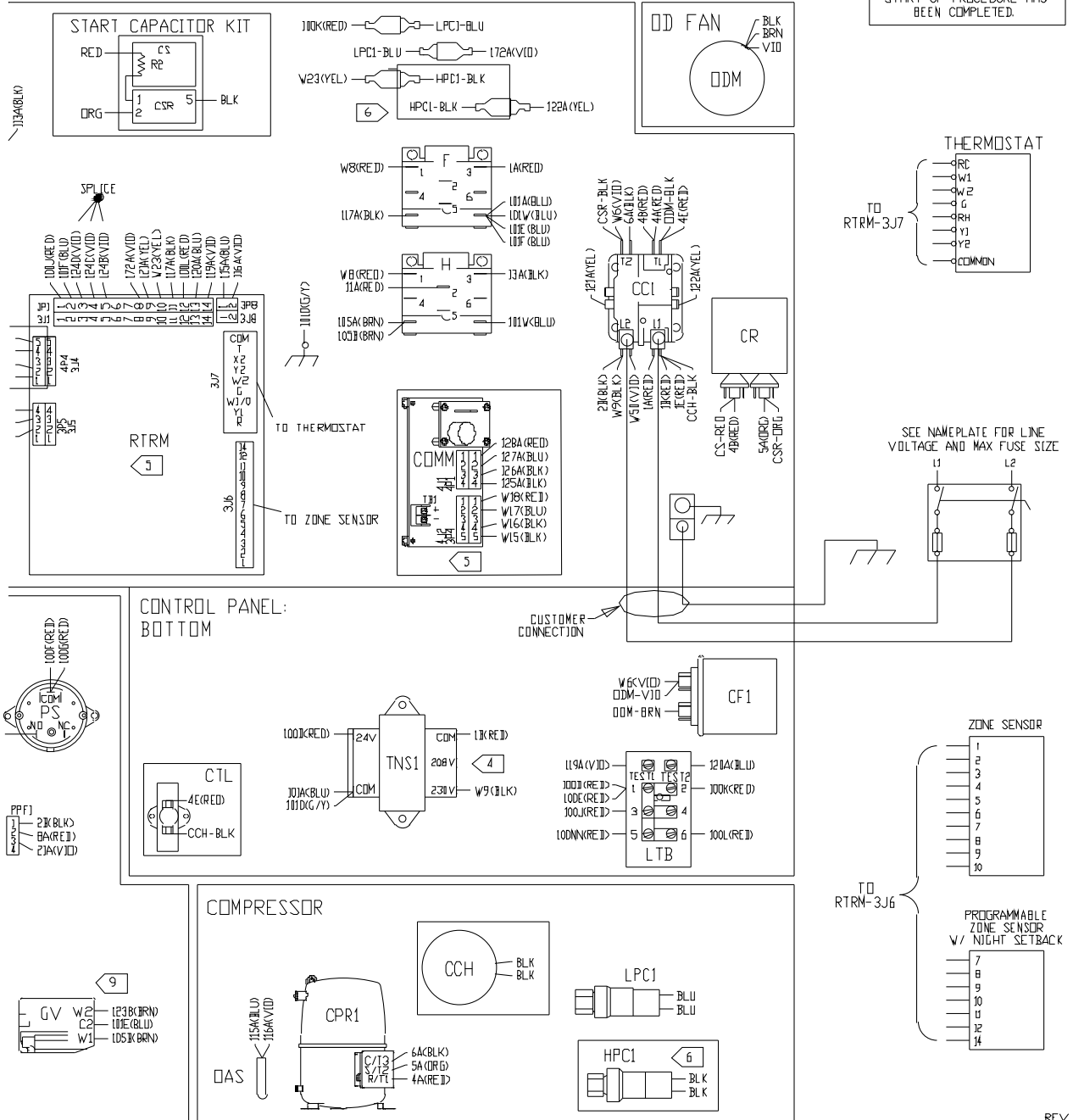
**WARNING**  
HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.



**⚠ AVERTISSEMENT**  
**VOLTAGE HASARDEUX!**  
 DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUES A DISTANCE AVANT D'EXECUTER L'ENTRETIEN.  
 FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EXECUTER L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**⚠ CAUTION**  
 USE COPPER CONDUCTORS ONLY!  
 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.  
 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

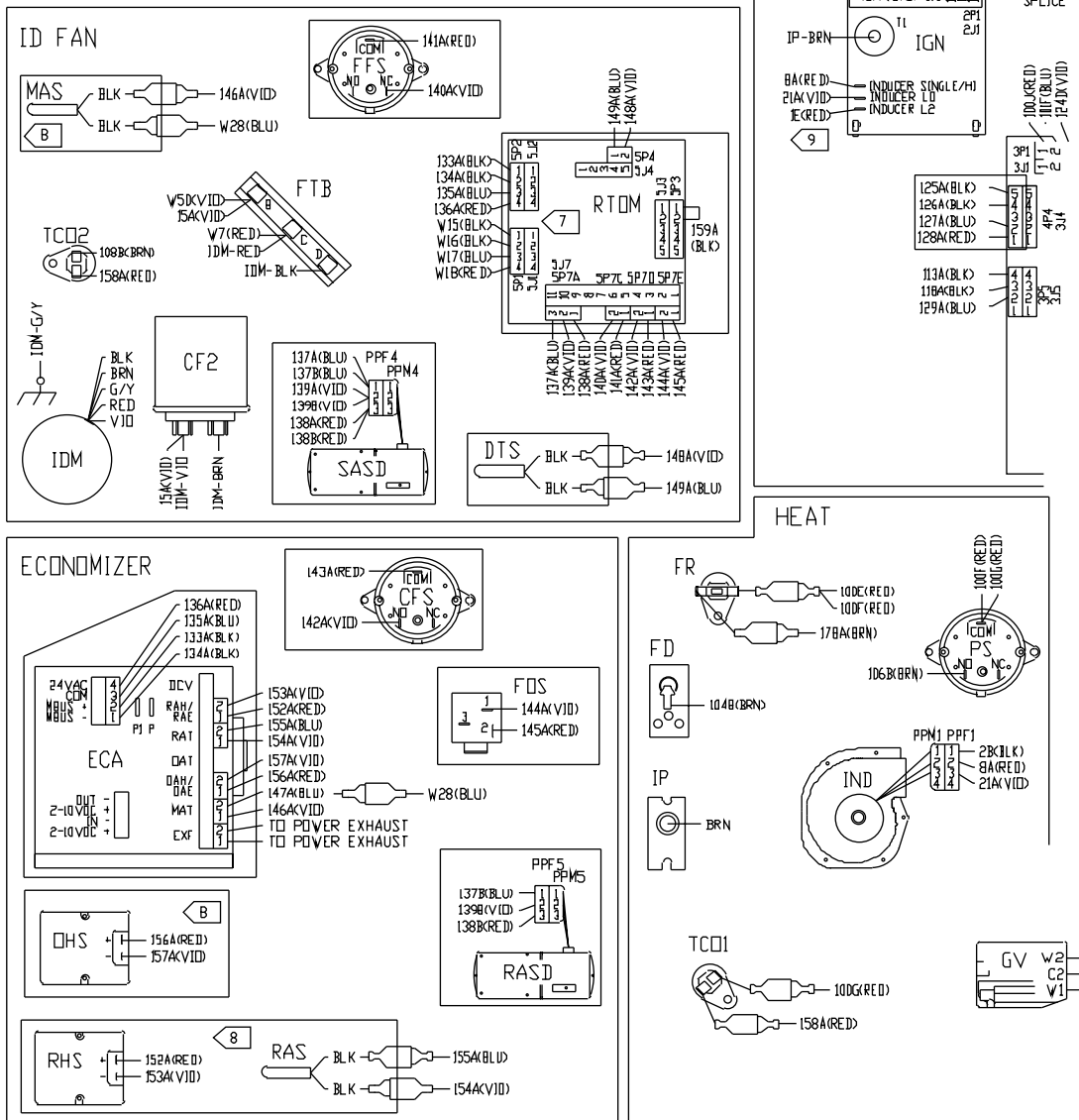
**IMPORTANT!**  
 DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



# Diagram 13

## Connection Diagram - 230v/60hz/1ph 3 - 5 Ton Single Stage Gas Heat / Oversize Motor 4366-1520

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/1PH UNITS. WHEN 208V/60HZ/1PH OPERATION IS REQUIRED, MOVE WIRE W9 (BLK) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTRM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTRM.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPCI. IF HPCI IS NOT INSTALLED, CONNECT W23(YEL) TO 122A(YEL).
7. CONNECTIONS SHOWN INCLUDE OPTIONAL RTDM. IF RTDM IS NOT INSTALLED, CONNECT 5P1 AND 5P2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
8. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. (FUTURE OPTION) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION WHEN 1-STAGE OPERATION IS REQUIRED. WIRE 21A IS NOT CONNECTED TO IGN, 123B IS NOT CONNECTED TO GV. CUT AND ISOLATED, AND WIRE 105D IS CONNECTED TO GV-M1 (NOT SHOWN).



**⚠ WARNING**

**HAZARDOUS VOLTAGE!**

DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**⚠ AVERTISSEMENT**

**VOLTAGE HASARDEUX!**

DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUÉS A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.

FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**⚠ CAUTION**

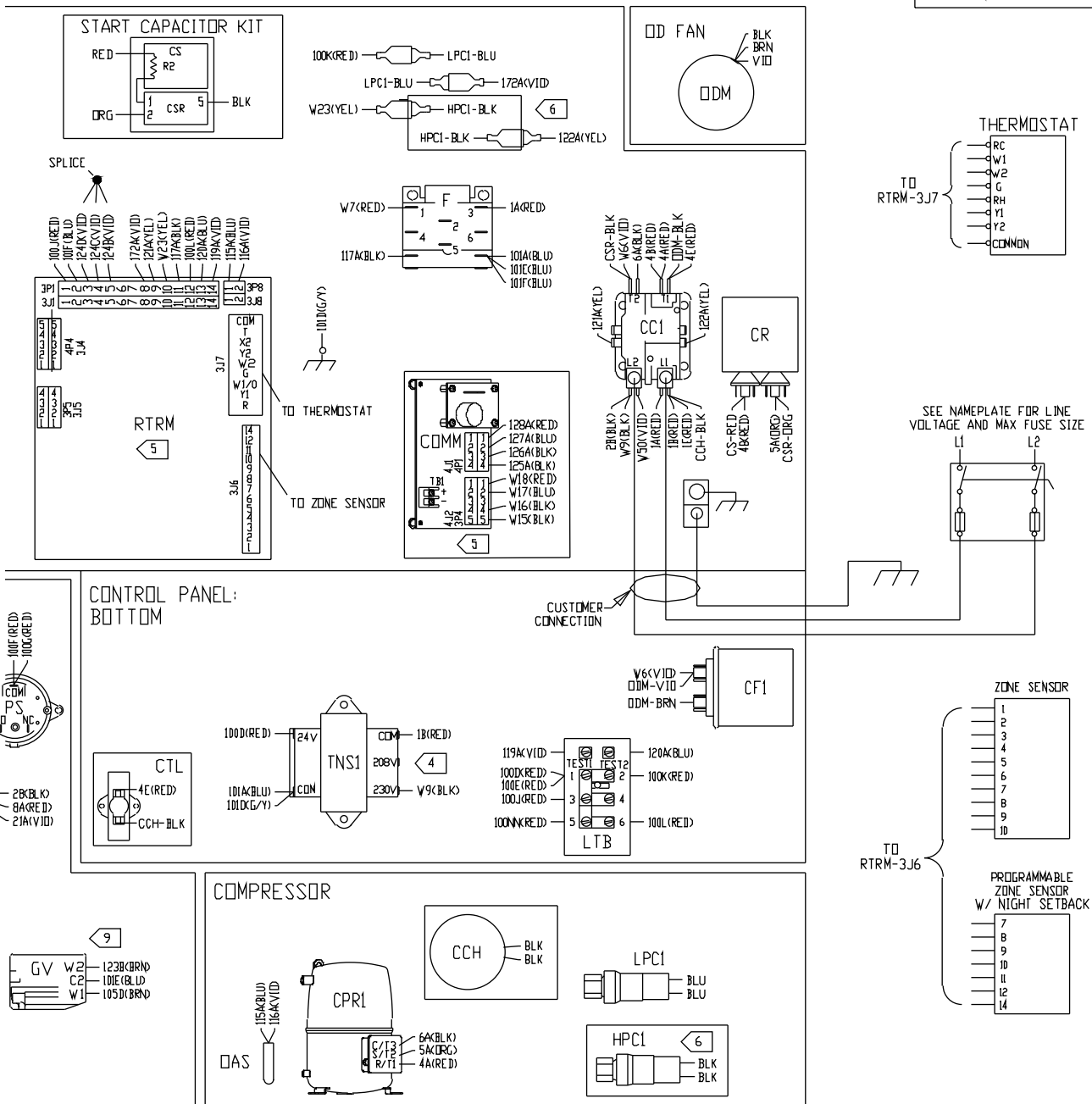
**USE COPPER CONDUCTORS ONLY!**

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

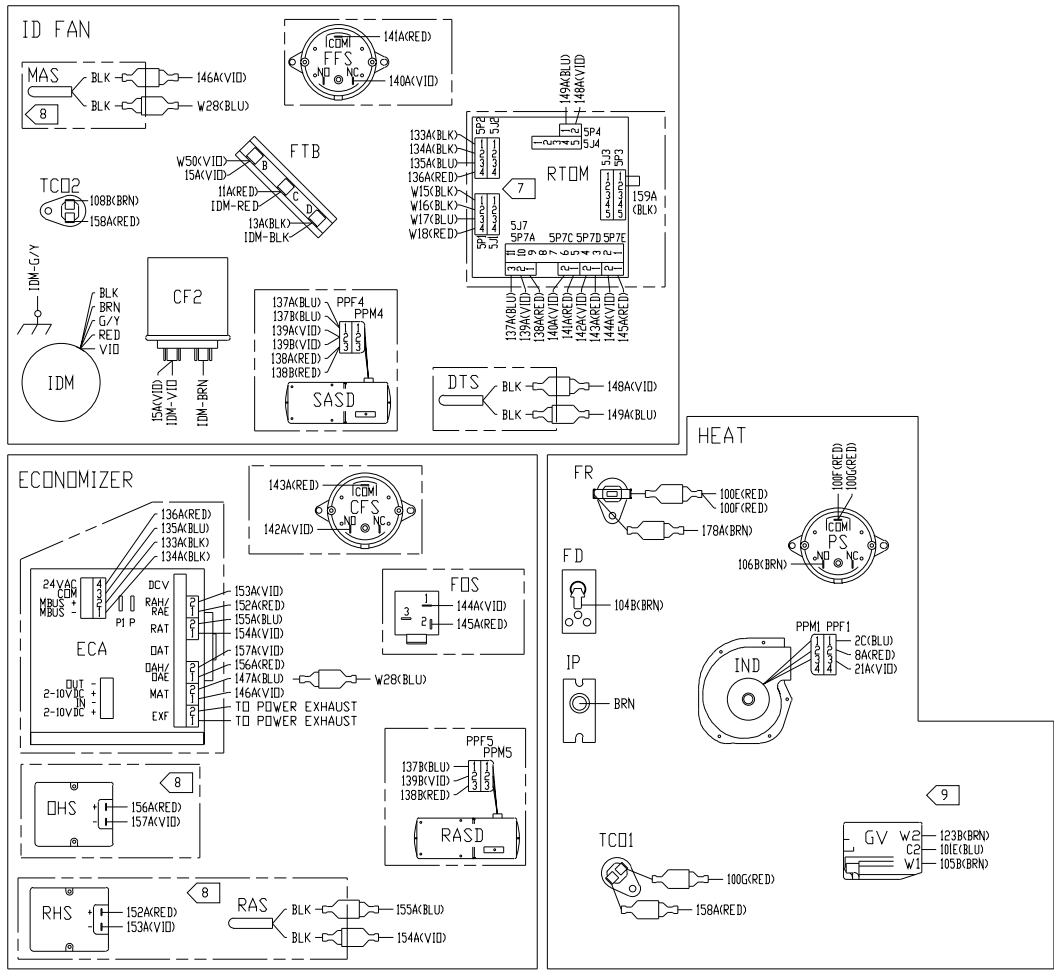
**IMPORTANT!**

DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



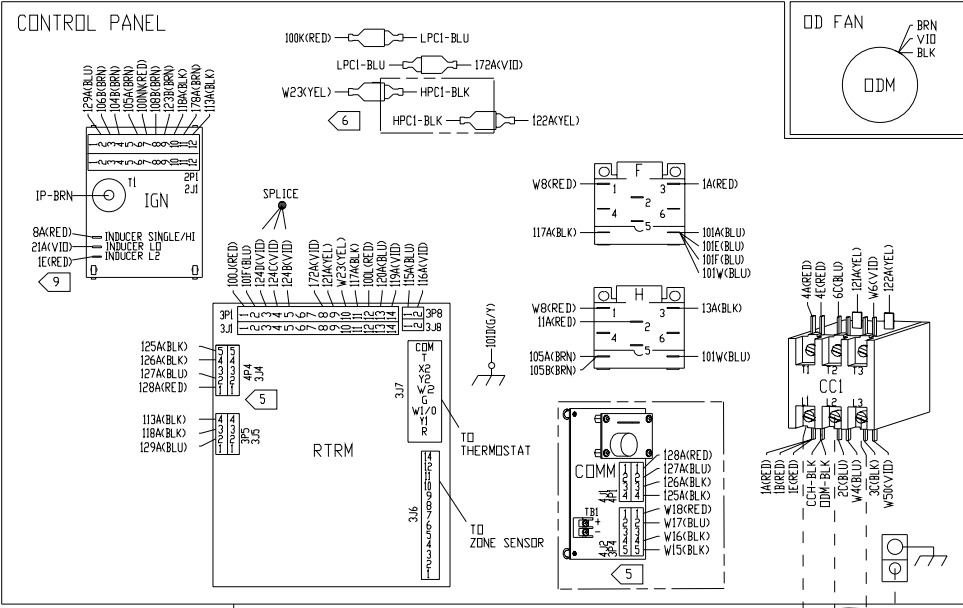
**Diagram 14**  
**Connection Diagram - 230v/60hz/3ph**  
**3 - 5 Ton Single Stage Gas Heat / Direct Drive**  
**4366-1503**

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTM.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPCI. IF HPCI IS NOT INSTALLED, CONNECT W23(YEL) TO 122A(YEL).
7. CONNECTIONS SHOWN INCLUDE OPTIONAL RTM. IF RTM IS NOT INSTALLED, CONNECT 5P1 AND 5P2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
8. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. (FUTURE OPTION) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21A IS NOT CONNECTED TO IGN, WIRE 123B IS NOT CONNECTED TO GV, WIRE 129A (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105B IS CONNECTED TO GV-MI (NOT SHOWN).

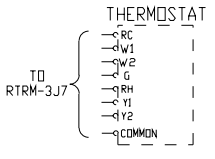




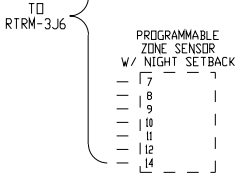
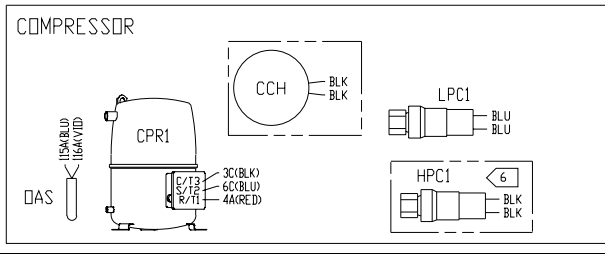
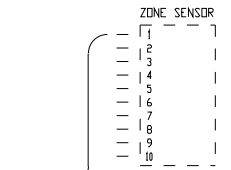
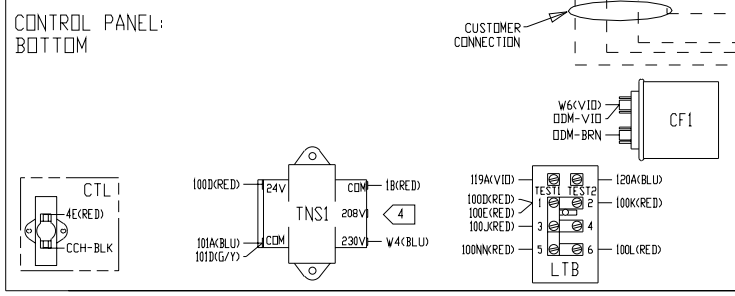
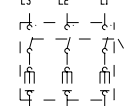
<p><b>⚠ WARNING</b>  <b>HAZARDOUS VOLTAGE!</b>          DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.</p> <p>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.</p>	<p><b>⚠ AVERTISSEMENT</b>  <b>VOLTAGE HASARDEUX!</b>          DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUÉS A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.</p> <p>FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPORELLES SEVERES OU LA MORT.</p>	<p><b>⚠ CAUTION</b>          USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.</p> <p>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.</p>
---	---	--



**IMPORTANT!**  
 DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



SEE NAMEPLATE FOR LINE VOLTAGE AND MAX FUSE SIZE



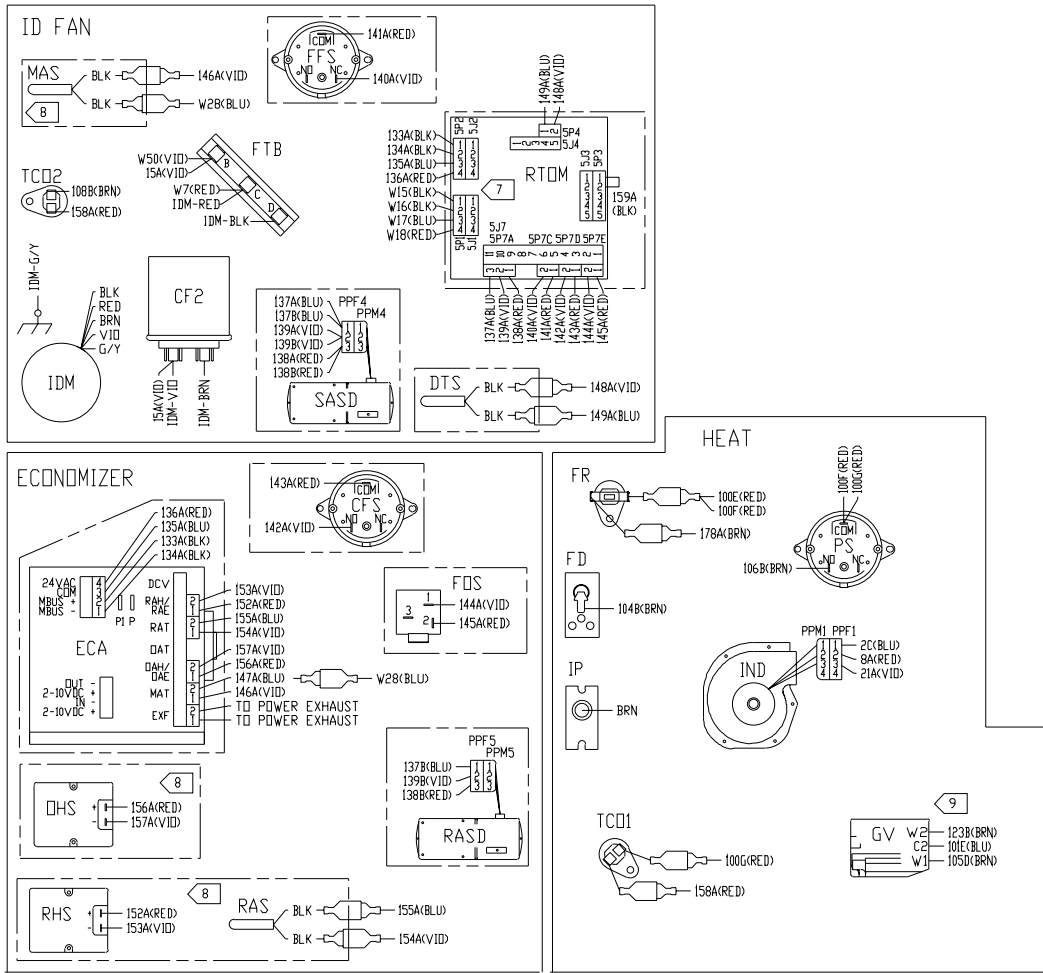
# Diagram 15

## Connection Diagram - 230v/60hz/3ph

### 3 - 5 Ton Single Stage Gas Heat / Oversize Motor

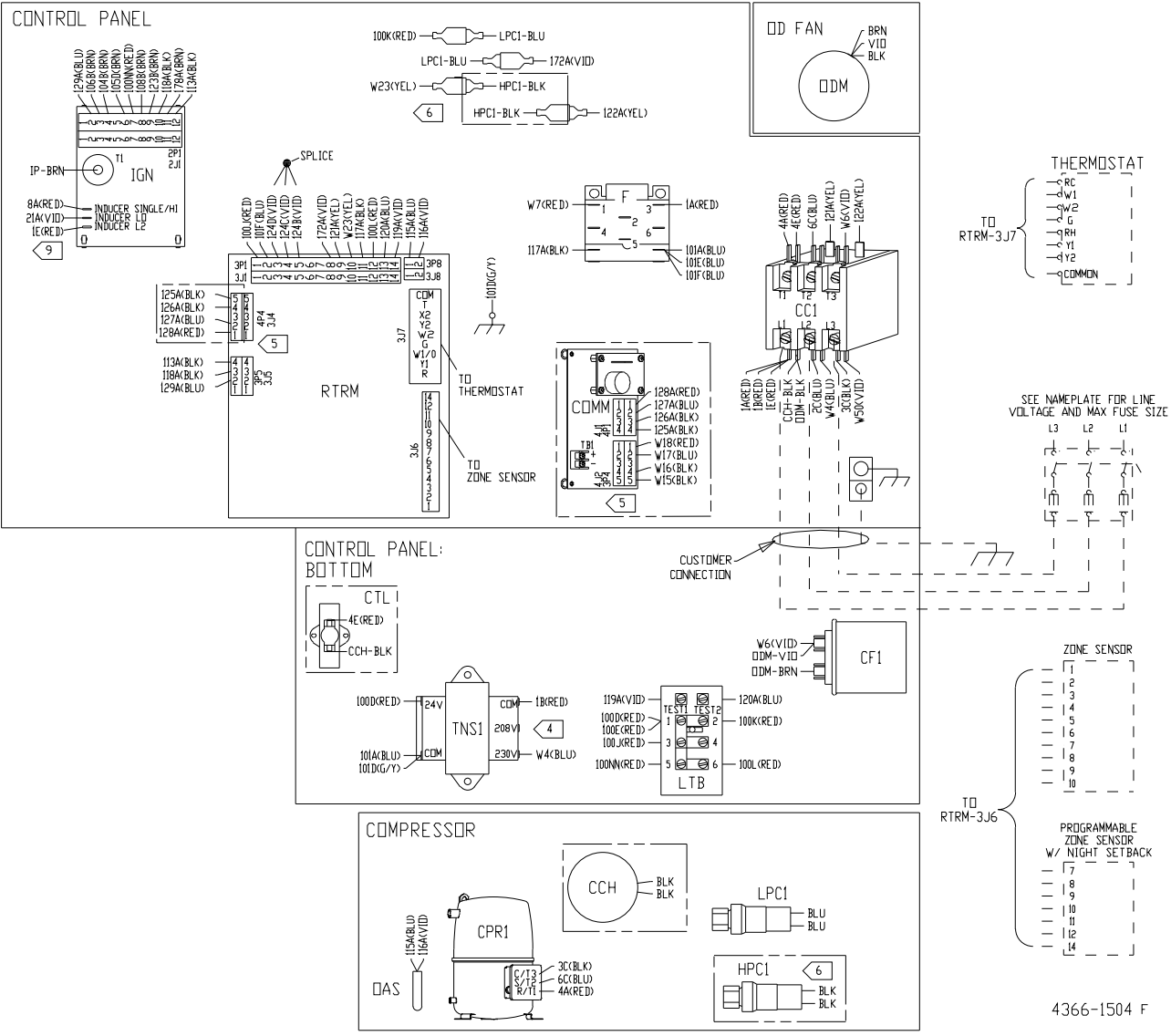
4366-1504

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTM.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPCI. IF HPCI IS NOT INSTALLED, CONNECT W23(YEL) TO I22A(YEL).
7. CONNECTIONS SHOWN INCLUDE OPTIONAL RTOM. IF RTOM IS NOT INSTALLED, CONNECT 5P1 AND 5P2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
8. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. (FUTURE OPTION) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21A IS NOT CONNECTED TO IGN. WIRE 123B IS NOT CONNECTED TO GV. WIRE 129A (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105D IS CONNECTED TO GV-M1 (NOT SHOWN).



<p><b>⚠ WARNING</b>  <b>HAZARDOUS VOLTAGE!</b>          DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.</p> <p>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.</p>	<p><b>⚠ AVERTISSEMENT</b>  <b>VOLTAGE HASARDEUX!</b>          DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUÉS A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.</p> <p>FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.</p>	<p><b>⚠ CAUTION</b>  <b>USE COPPER CONDUCTORS ONLY!</b>          UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.</p> <p>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.</p>
---	---	--

**IMPORTANT!**  
 DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



4366-1504 F

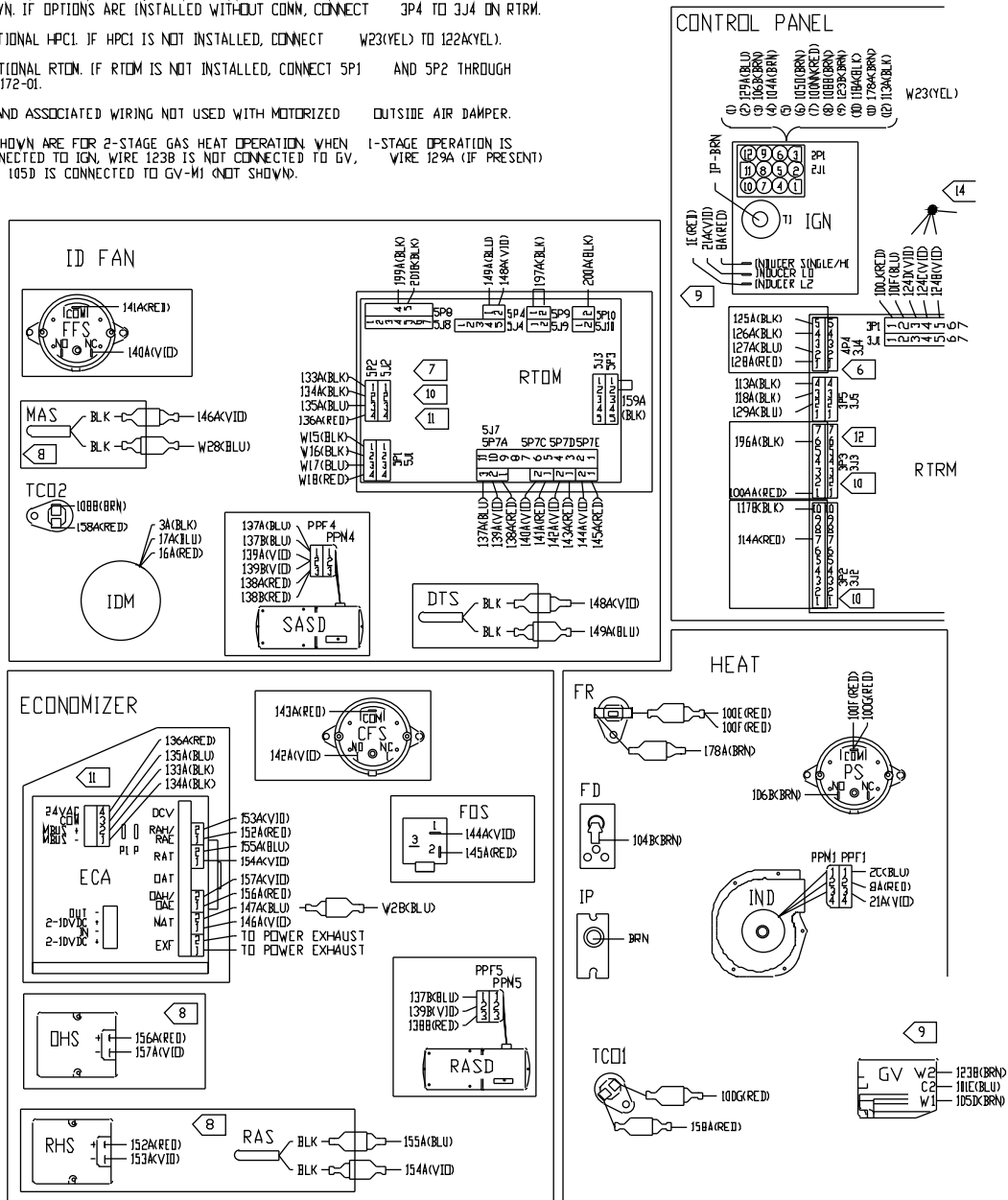
# Diagram 16

## Connection Diagram - 230v/60hz/3ph

### 3 - 5 Ton Single Stage Gas Heat / Belt Drive

#### 4366-1522

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTM.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPCI. IF HPCI IS NOT INSTALLED, CONNECT W23(YEL) TO 122A(YEL).
7. CONNECTIONS SHOWN INCLUDE OPTIONAL RTDM. IF RTDM IS NOT INSTALLED, CONNECT SP1 AND SP2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
8. OPTIONAL MAS, RAS, RRS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. (FUTURE OPTION) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21A IS NOT CONNECTED TO IGN, WIRE 123B IS NOT CONNECTED TO GV, WIRE 129A (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105J IS CONNECTED TO GV-W1 (NOT SHOWN).
10. COMPONENTS 3P2, 3P3, 5PB, 5P9, 5PD, NLTB, LTB 7-14, RHV, RTM AND ASSOCIATED WIRING ARE PRESENT ONLY WITH DEHUMIDIFICATION OPTION.
11. SEE CO2 & VENT. OVERRIDE ACCESSORY DIAGRAM FOR ADDITIONAL WIRING.
12. CONNECTIONS SHOWN ARE FOR DEHUMIDIFICATION OPTION (2-SPEED CO2). FOR 1-SPEED CO2, WIRES 101M-RED, 1S (RED), 101AL (BLU), 196A (BLK) AND RELAY CO2F2 ARE NOT PRESENT AND WIRE 101M-BLK IS CONNECTED TO CCL TERMINAL L1.
13. FOR 200V/208V/230V DEHUMIDIFICATION OPTION, WIRE 32A (RED) IS NOT CONNECTED.
14. CUT AND ISOLATE WIRE 124K(VID) IF DEHUMIDIFICATION OPTION IS INSTALLED.

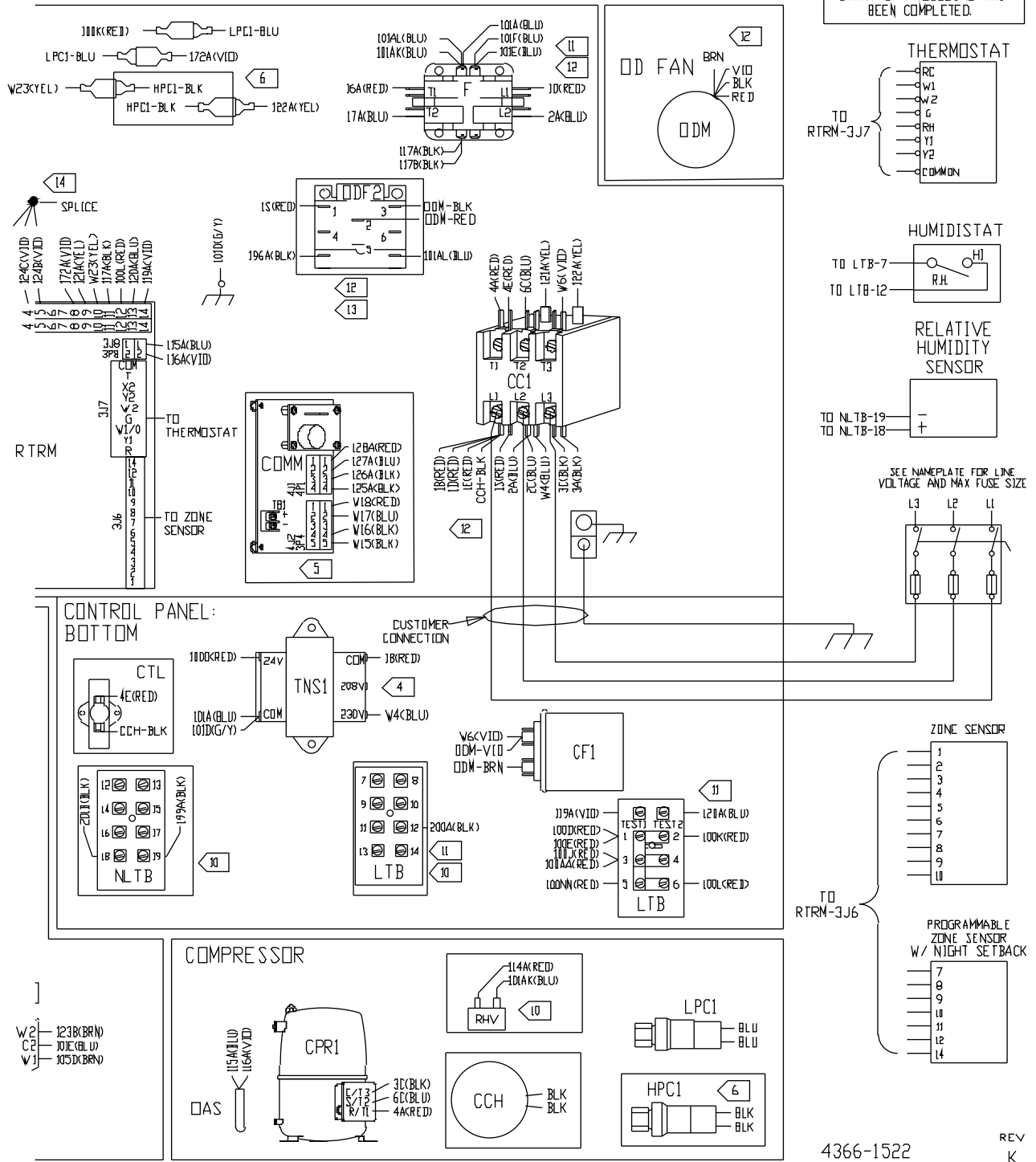


**⚠ WARNING**  
**HAZARDOUS VOLTAGE!**  
 DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.  
 FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**⚠ AVERTISSEMENT**  
**VOLTAGE HASARDEUX!**  
 DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUES A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.  
 FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**⚠ CAUTION**  
 USE COPPER CONDUCTORS ONLY!  
 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.  
 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**IMPORTANT!**  
 DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



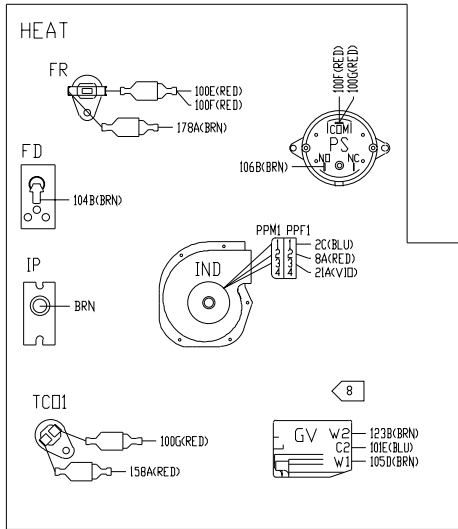
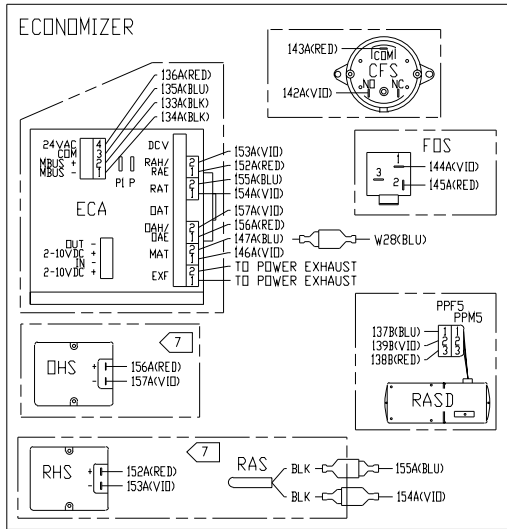
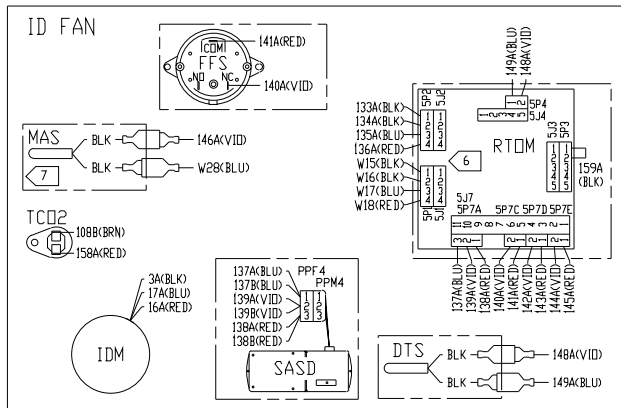
4366-1522

REV K

# Diagram 17

## Connection Diagram - 230v/60hz/3ph 6 - 7.5 Ton Gas Heat / Single Compressor 4366-1539

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO THE RTM. IF CDMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT CDMM, CONNECT 3P4 TO 3J4 ON RTRM.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL RTOM. IF NOT INSTALLED, CONNECT SP1 AND SP2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
7. OPTIONAL MAS, RAS, RHS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
8. CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21A IS NOT CONNECTED TO IGN. WIRE 123B IS NOT CONNECTED TO GV. WIRE 129A (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105D IS CONNECTED TO GV-M1 (NOT SHOWN).



**⚠ WARNING**

**HAZARDOUS VOLTAGE!**  
DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**⚠ AVERTISSEMENT**

**VOLTAGE HASARDEUX!**  
DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUÉS A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.

FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

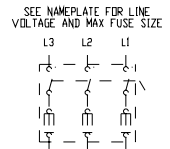
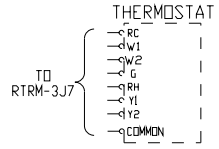
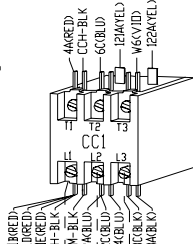
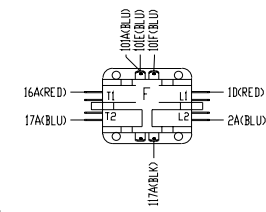
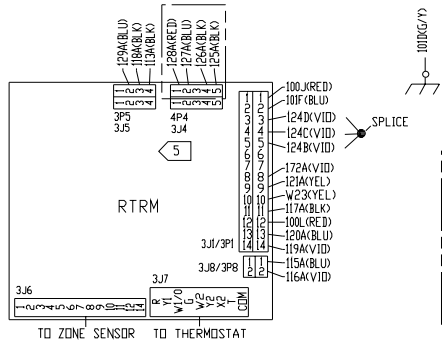
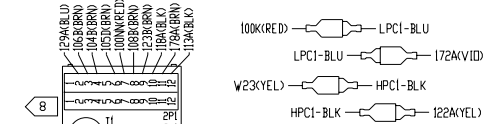
**⚠ CAUTION**

**USE COPPER CONDUCTORS ONLY!**  
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

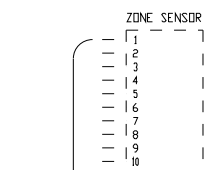
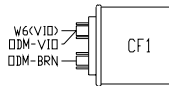
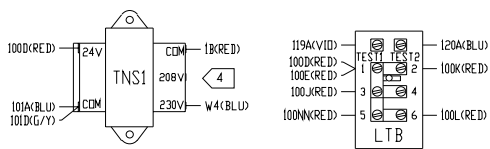
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

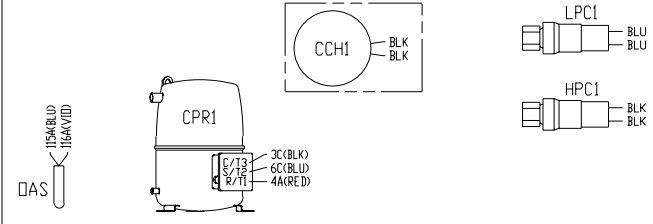
**CONTROL PANEL**



**CONTROL PANEL: BOTTOM**



**COMPRESSOR**

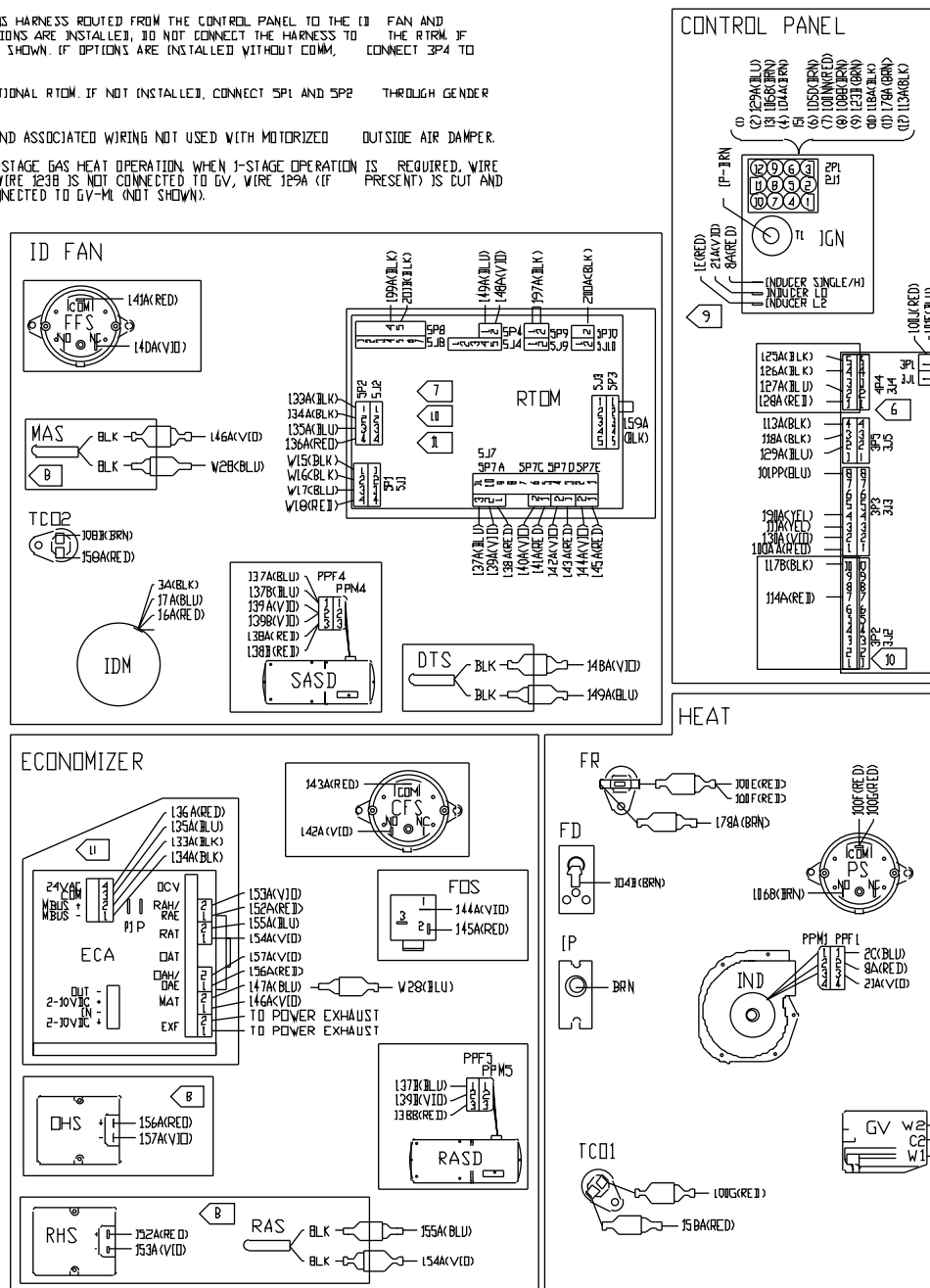


# Diagram 18

## Connection Diagram - 230v/60hz/3ph 7.5 - 10 Ton Gas Heat / Dual Compressor 4366-1530

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE V4(BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. CCH2 CONDUCTORS ARE IDENTIFIED BY BROWN TAPE PLACED NEAR WIRE TERMINATIONS INSIDE CONTROL PANEL.
6. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO THE RTM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTM.
7. CONNECTIONS SHOWN INCLUDE OPTIONAL RTM. IF NOT INSTALLED, CONNECT SP1 AND SP2 THROUGH GENDER CHANGER HARNESS 4386-1172-01.
8. OPTIONAL MAS, RAS, RHS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION WHEN 1-STAGE OPERATION IS REQUIRED. WIRE 21A IS NOT CONNECTED TO IGN, WIRE 23B IS NOT CONNECTED TO GV, WIRE 129A (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105B IS CONNECTED TO GV-M (NOT SHOWN).
10. COMPONENTS SP2, SP8, SP9, SP10, NLTB, LTB 7-14, RHV, RTCM AND ASSOCIATED WIRING ARE PRESENT ONLY WITH DEHUMIDIFICATION OPTION.
11. SEE G02 & VENT OVERRIDE ACCESSORY DIAGRAM FOR ADDITIONAL WIRING.
12. CUT AND ISOLATE WIRE 124G(VID) IF DEHUMIDIFICATION OPTION IS INSTALLED.

CORPORALES SEVERES DU LA MORT.





**⚠ WARNING**  
HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**⚠ AVERTISSEMENT**  
VOLTAGE HASARDEUX!

DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITES A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.

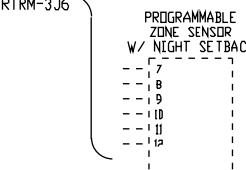
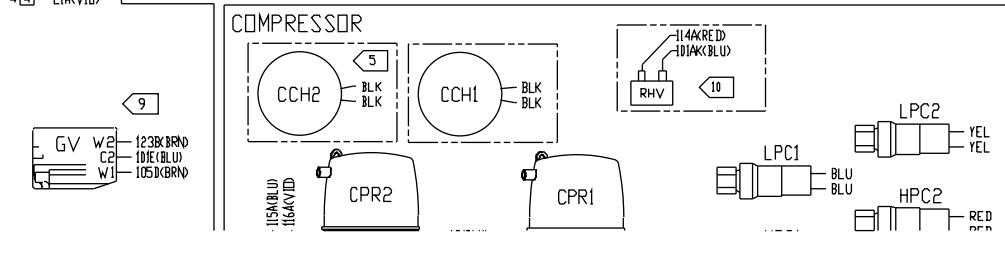
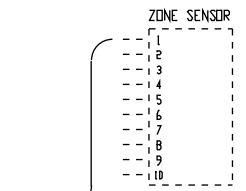
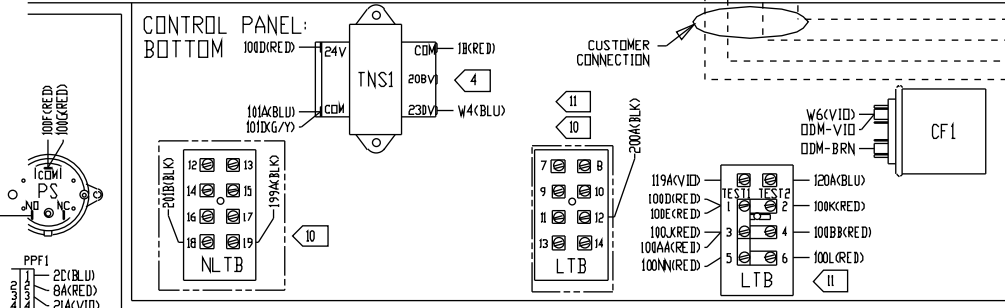
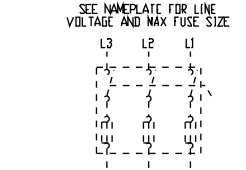
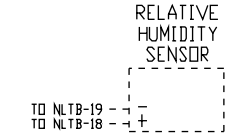
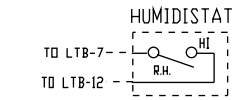
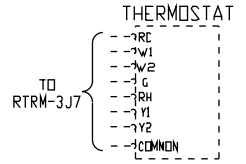
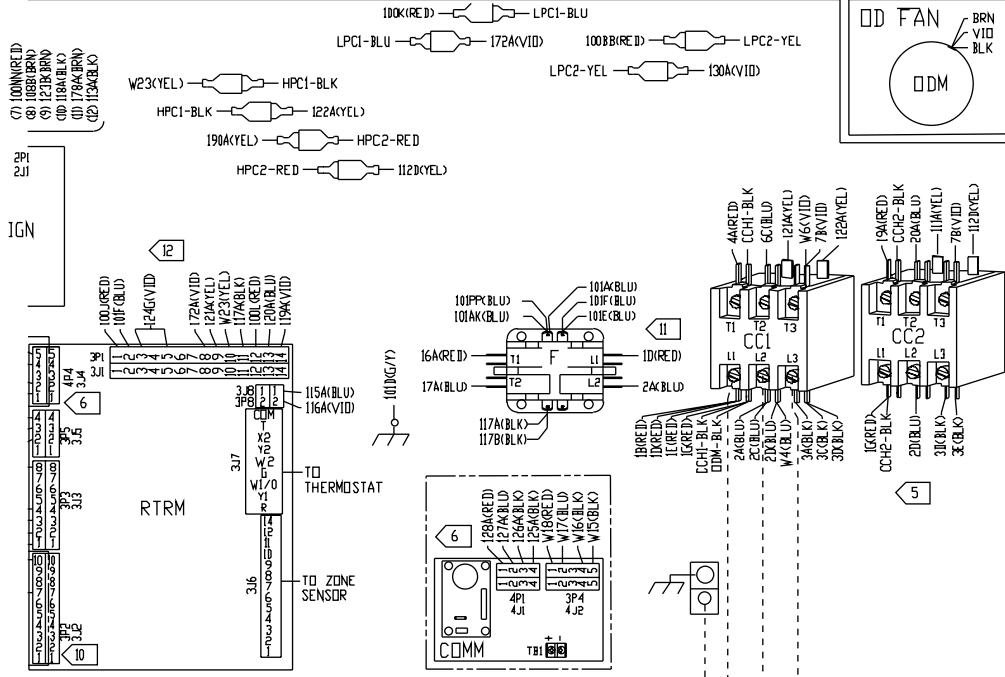
FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINDER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**⚠ CAUTION**

USE COPPER CONDUCTORS ONLY!  
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



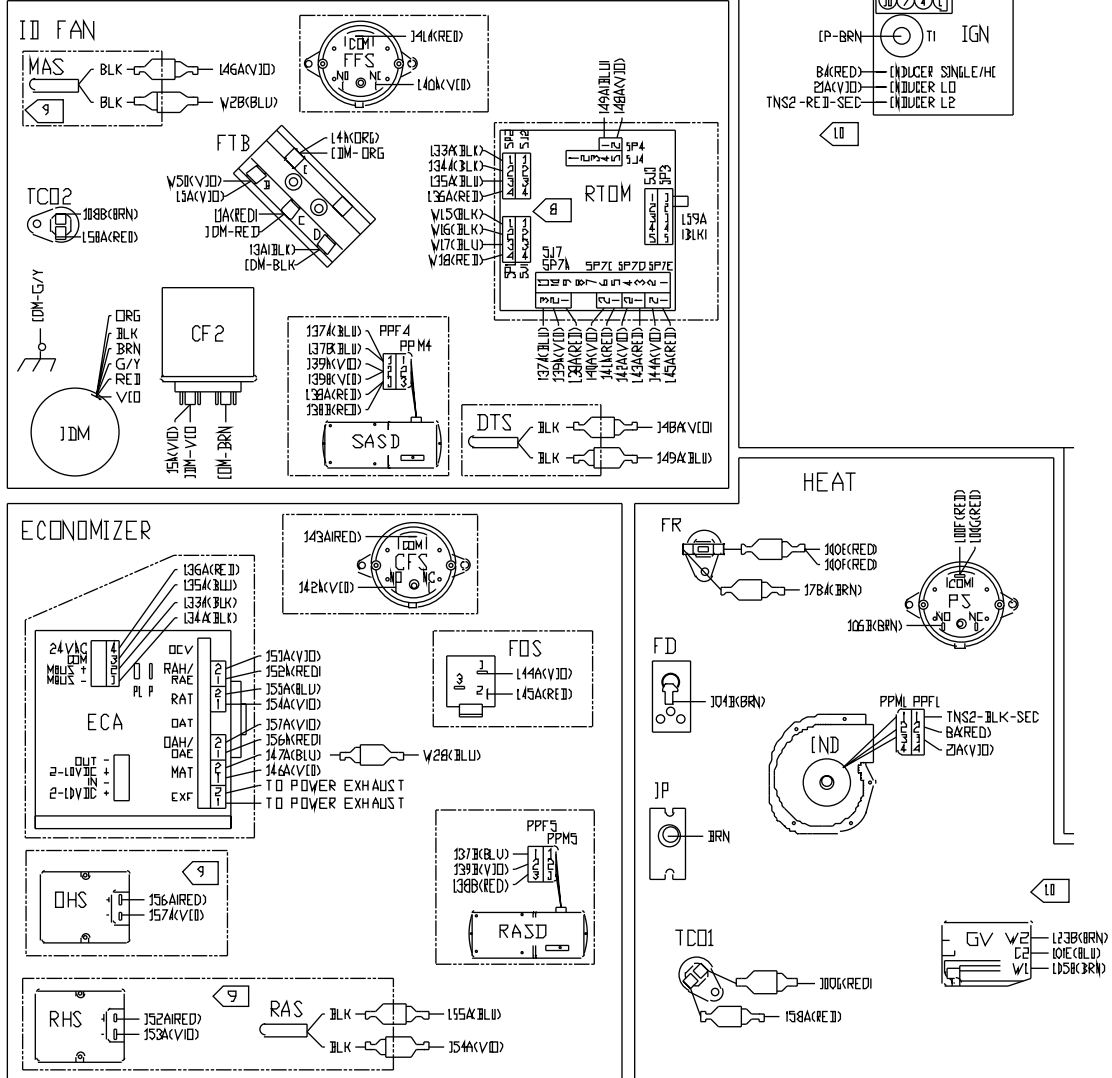
# Diagram 19

## Connection Diagram - 460-575v/60hz/3ph

### 3 Ton Gas Heat / Direct Drive

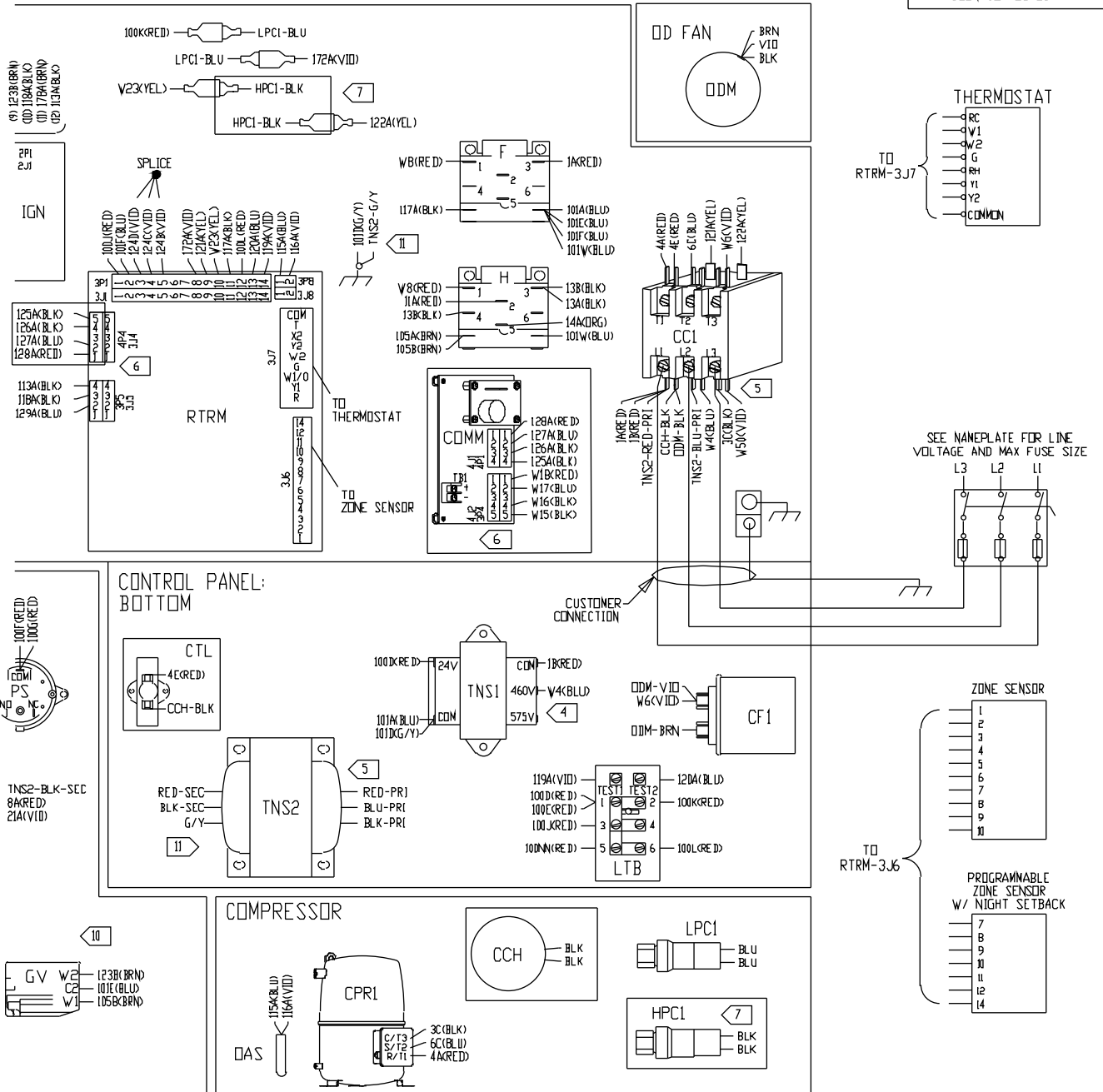
4366-1514

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 575V TERMINAL.
5. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE TNS2-BLU-PRI FROM CC1-L2 AND CONNECT TNS2-BLK-PRI TO CC1-L2.
6. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE (D) FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTRM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTRM.
7. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT W23(YEL) TO 122A(YEL).
8. CONNECTIONS SHOWN INCLUDE OPTIONAL RTOM. IF RTOM IS NOT INSTALLED, CONNECT 5P1 AND 5P2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
9. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
10. (FUTURE) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21AC(VID) (S NOT CONNECTED) TO IGN. WIRE 123(BRN) IS NOT CONNECTED TO GV. WIRE 129A(BLU) AND WIRE 115(BRN) IS CONNECTED TO GV-M1 (NOT SHOWN). (IF PRESENT) IS CUT AND ISOLATED.
11. WIRE TNS2-G/Y IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.



<p><b>⚠ WARNING</b> HAZARDOUS VOLTAGE!</p> <p>DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.</p> <p>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.</p>	<p><b>⚠ AVERTISSEMENT</b> VOLTAGE HASARDEUX!</p> <p>DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES (INCLUANT LES DISJONCTEURS SITUES A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.</p> <p>FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.</p>	<p><b>⚠ CAUTION</b> USE COPPER CONDUCTORS ONLY!</p> <p>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.</p> <p>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.</p>
---	--	--

**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



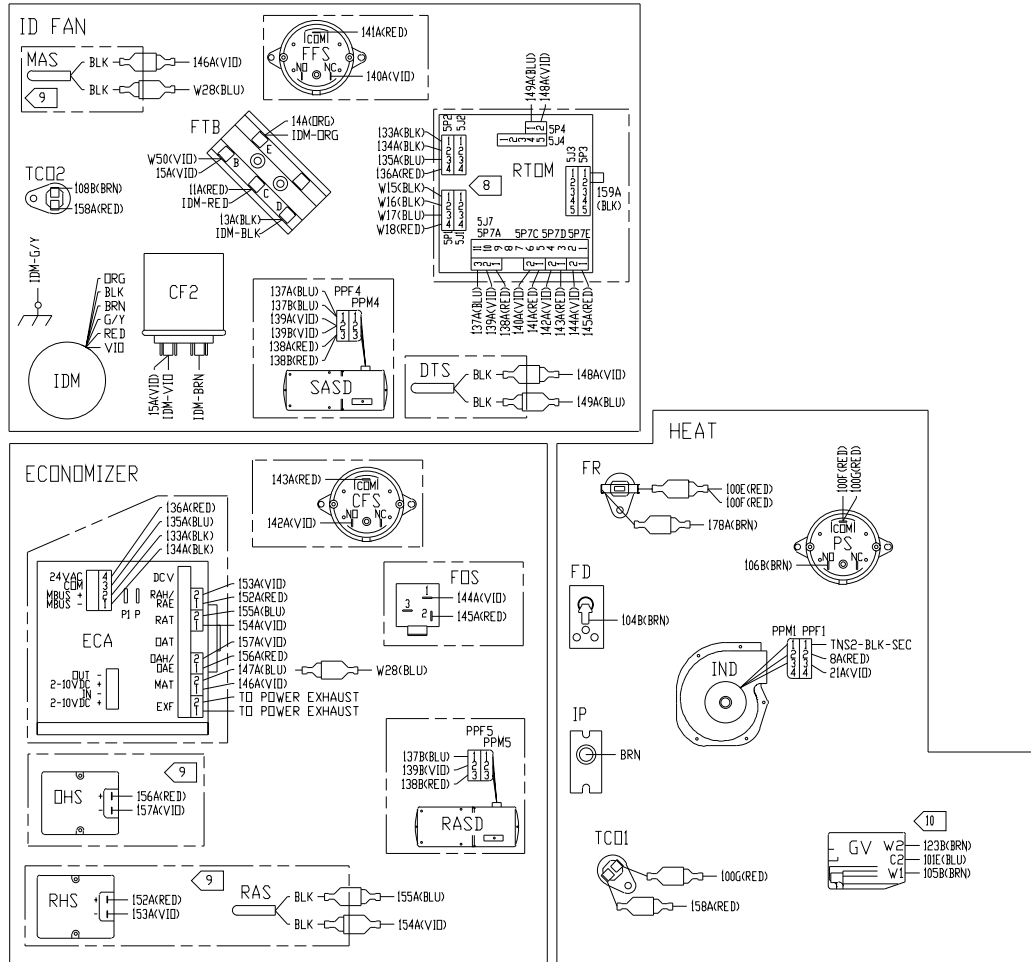
# Diagram 20

## Connection Diagram - 460-575v/60hz/3ph

### 4 - 5 Ton Gas Heat / Direct Drive

#### 4366-1518

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 380V/60HZ/3PH OR 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 400V/575V TERMINAL.
5. CONNECTIONS SHOWN ARE FOR 380V/60HZ/3PH OR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE TNS2-BLU-PRI FROM THE CCI-L2 AND CONNECT TNS2-BLK-PRI TO CCI-L2.
6. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTRM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTRM.
7. CONNECTIONS SHOWN INCLUDE OPTIONAL HPCI. IF HPCI IS NOT INSTALLED, CONNECT W23(YEL) TO 122A(YEL).
8. CONNECTIONS SHOWN INCLUDE OPTIONAL RTDM. IF RTDM IS NOT INSTALLED, CONNECT SP1 AND SP2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
9. OPTIONAL MAS, RAS, RHS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
10. (FUTURE) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21A(VID) IS NOT CONNECTED TO IGN. WIRE 123(BRBN) IS NOT CONNECTED TO GV. WIRE 129A(BLU) (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105(BRBN) IS CONNECTED TO GV-M (NOT SHOWN).
11. WIRE TNS2-G/Y IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.

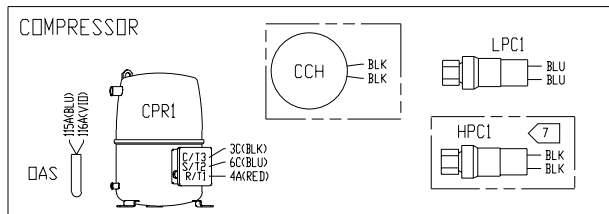
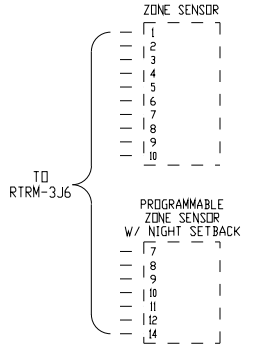
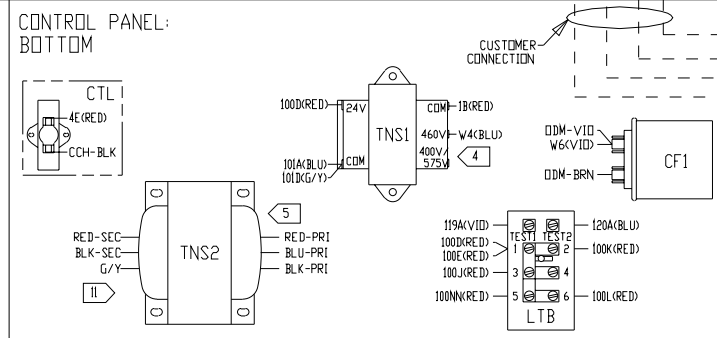
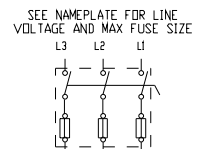
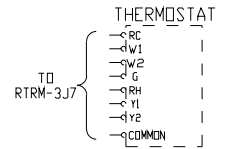
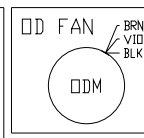
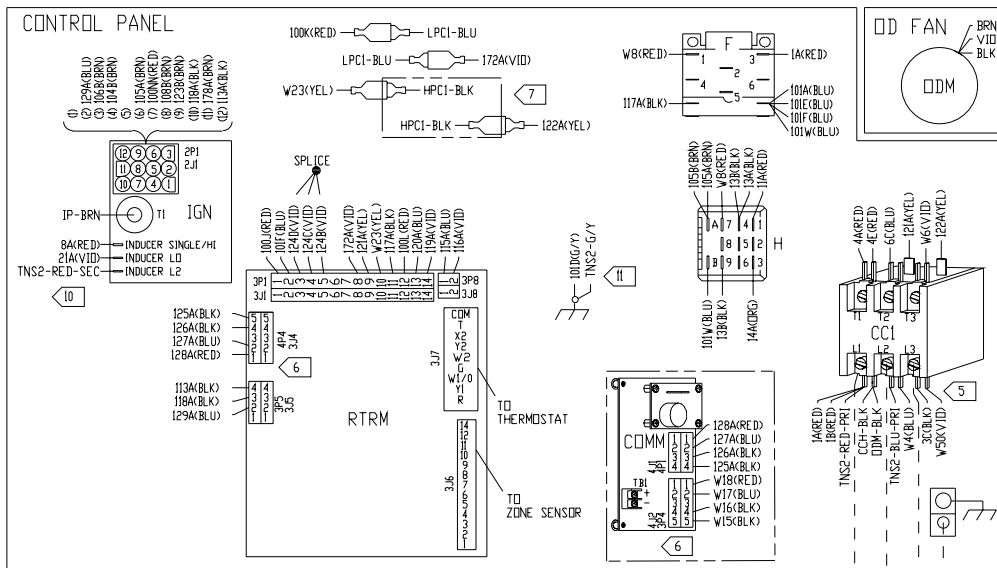


**⚠ WARNING**  
**HAZARDOUS VOLTAGE!**  
 DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.  
 FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**⚠ AVERTISSEMENT**  
**VOLTAGE HASARDEUX!**  
 DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUÉS A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.  
 FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**⚠ CAUTION**  
 USE COPPER CONDUCTORS ONLY!  
 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.  
 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

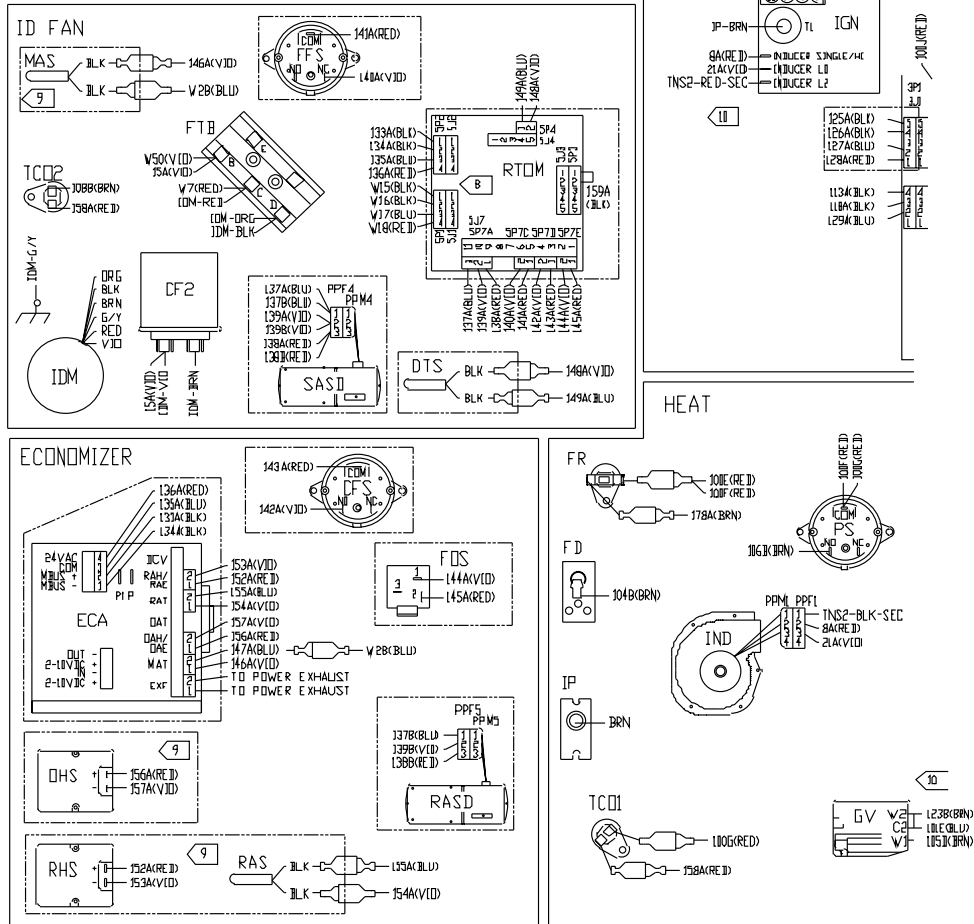
**IMPORTANT!**  
 DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



# Diagram 21

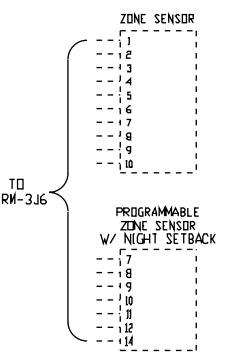
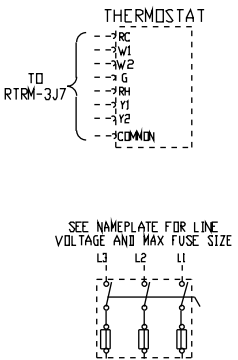
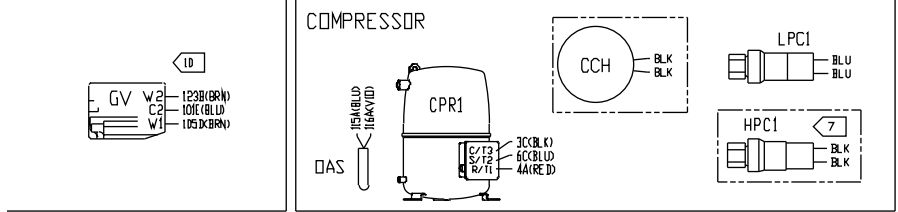
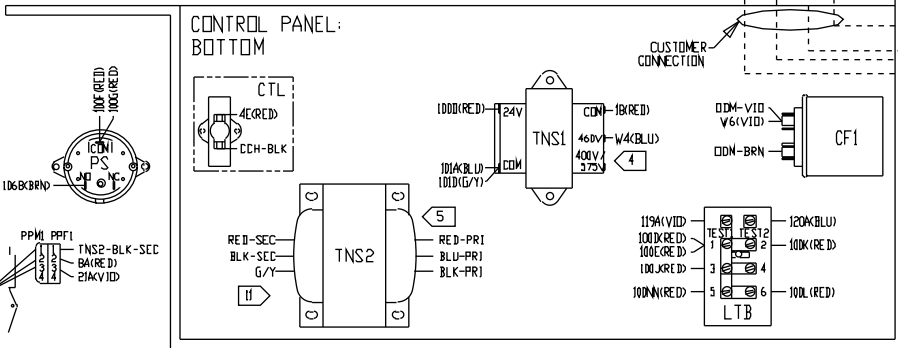
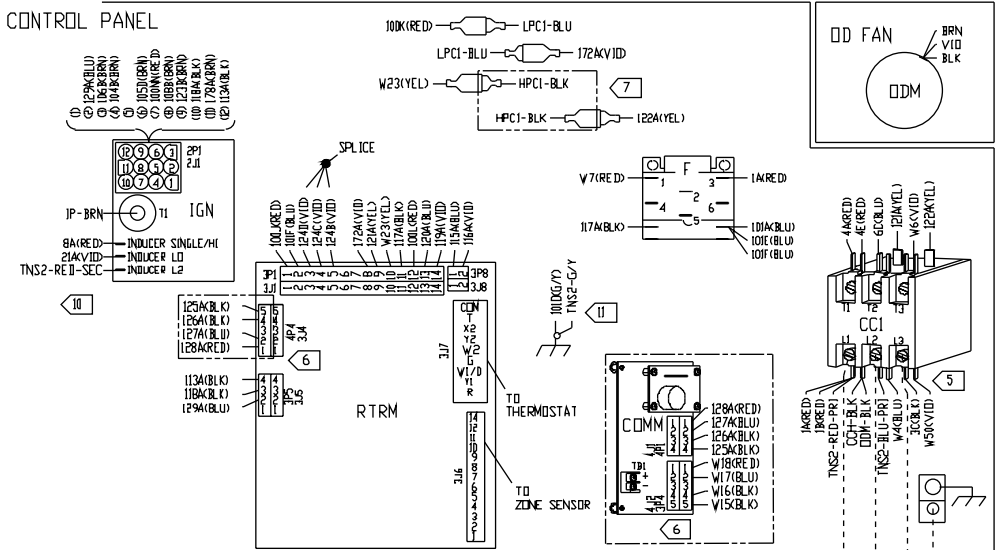
## Connection Diagram - 460-575v/60hz/3ph 4 - 5 Ton Gas Heat / Oversize Motor 4366-1515

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED. REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 380V/60HZ/3PH OR 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 400V/575V TERMINAL.
5. CONNECTIONS SHOWN ARE FOR 380V/60HZ/3PH OR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE TNS2-BLU-PRC FROM THE DC1-L2 AND CONNECT TNS2-BLK-PRC TO DC1-L2.
6. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE (3) FAN AND ECONOMIZER SECTIONS. IF THERE ARE NO OPTIONS INSTALLED, DO NOT CONNECT THE HARNESS TO RTM. IF COMM (S) IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTM.
7. CONNECTIONS SHOWN INCLUDE OPTIONAL HPCL. IF HPCL IS NOT INSTALLED, CONNECT W23(YEL) TO I22(KYEL).
8. CONNECTIONS SHOWN INCLUDE OPTIONAL RTDM. IF RTDM IS NOT INSTALLED, CONNECT SP1 AND SP2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
9. OPTIONAL MAS, RAS, RRS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
10. (FUTURE) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21A(VIO) IS NOT CONNECTED TO G4, WIRE I23(BKBRN) IS NOT CONNECTED TO G5, WIRE I29A(BLU) AND WIRE I05(DKBRN) IS CONNECTED TO GV-M1 (NOT SHOWN). (IF PRESENT) IS CUT AND ISOLATED.
11. WIRE TNS2-G/Y IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.



<p><b>⚠ WARNING</b> HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.</p> <p>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.</p>	<p><b>⚠ AVERTISSEMENT</b> VOLTAGE HASARDEUX! DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITES A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.</p> <p>FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.</p>	<p><b>⚠ CAUTION</b> USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.</p> <p>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.</p>
--	---	---

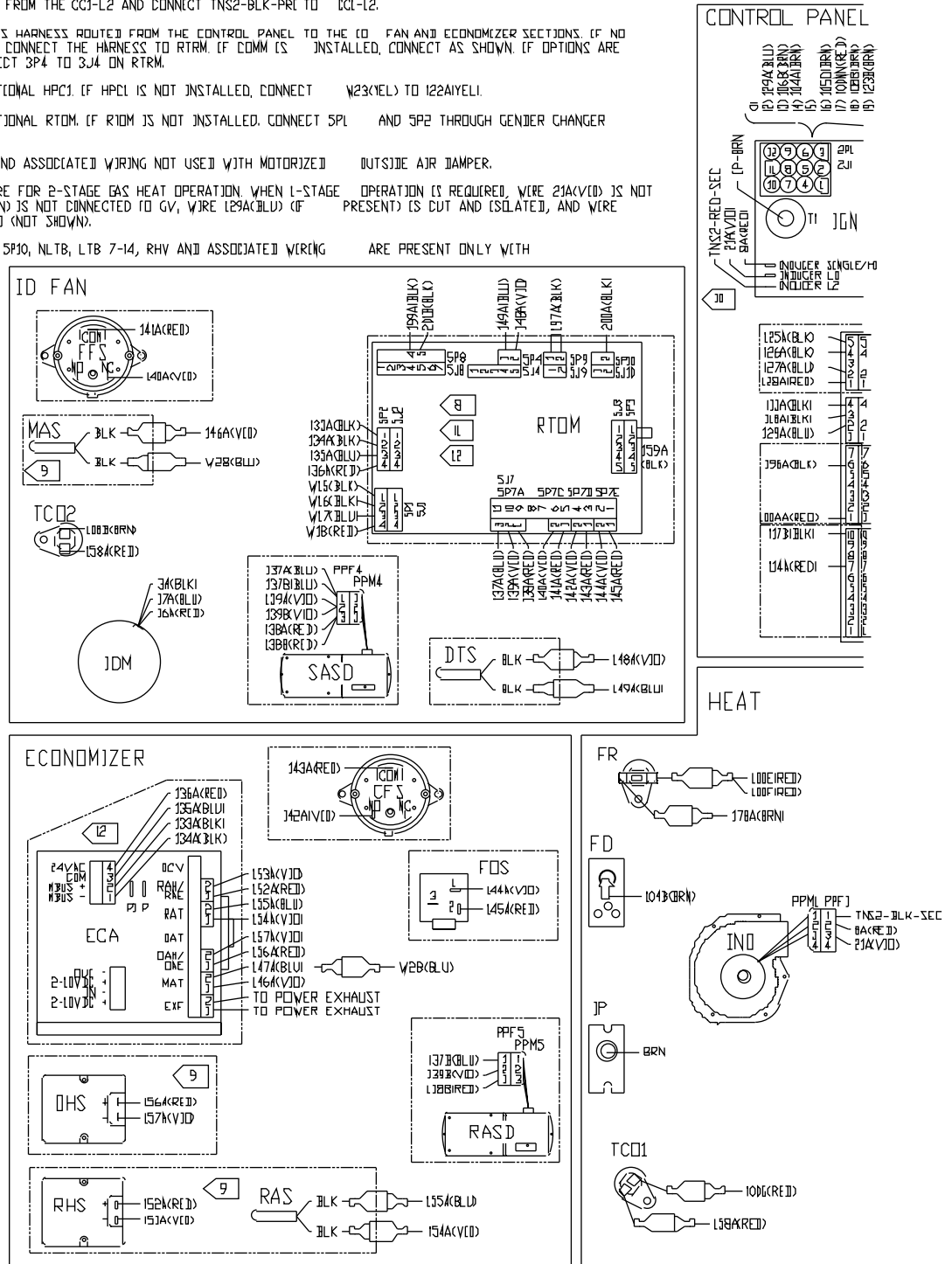
**IMPORTANT!**  
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



# Diagram 22

## Connection Diagram - 460-575v/60hz/3ph 3 - 5 Ton Gas Heat / Belt Drive 4366-1516

- 1 ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
- 2 IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
- 3 THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- 4 CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 380V/60HZ/3PH OR 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 400V/575V TERMINAL.
- 5 CONNECTIONS SHOWN ARE FOR 380V/60HZ/3PH OR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE TNS2-BLU-PRJ FROM THE CC1-L2 AND CONNECT TNS2-BLK-PRJ TO CC1-L2.
- 6 ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE CO FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTM. IF COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTM.
- 7 CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT W23(YEL) TO I22A(YEL).
- 8 CONNECTIONS SHOWN INCLUDE OPTIONAL RTDM. IF RTDM IS NOT INSTALLED, CONNECT 5P1 AND 5P2 THROUGH GENDER CHANGER HARNESS 4366-L172-D1.
- 9 OPTIONAL MAS, RAS, RHS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
- 10 (FUTURE) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 21A(VIO) IS NOT CONNECTED TO IGN, WIRE 123(BRN) IS NOT CONNECTED TO GV, WIRE 129A(BLU) (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105(DJRN) IS CONNECTED TO 6V-N1 (NOT SHOWN).
- 11 COMPONENTS 3P2, 3P3, 5P8, 5P9, 5P10, NLTB, LTB 7-14, RHV AND ASSOCIATED WIRING ARE PRESENT ONLY WITH DEHUMIDIFICATION OPTION
- 12 SEE CO2 & VENT. OVERRIDE ACCESSORY DIAGRAM FOR ADDITIONAL WIRING.
- 13 CONNECTIONS SHOWN ARE FOR DEHUMIDIFICATION OPTION (2-SPEED ODM). FOR 1-SPEED ODM, WIRES ODM-ORG, ODM-RED, 32K(RED), 1SK(RED), 1VAL(BLU), 196A(BLU), AND RELAY COF2 ARE NOT PRESENT AND WIRE ODM-BLK IS CONNECTED TO CC1 TERMINAL L1.
- 14 CUT AND ISOLATE WIRE 124B(VIO) IF DEHUMIDIFICATION OPTION IS INSTALLED.
- 15 WIRE TNS2-G/Y IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.



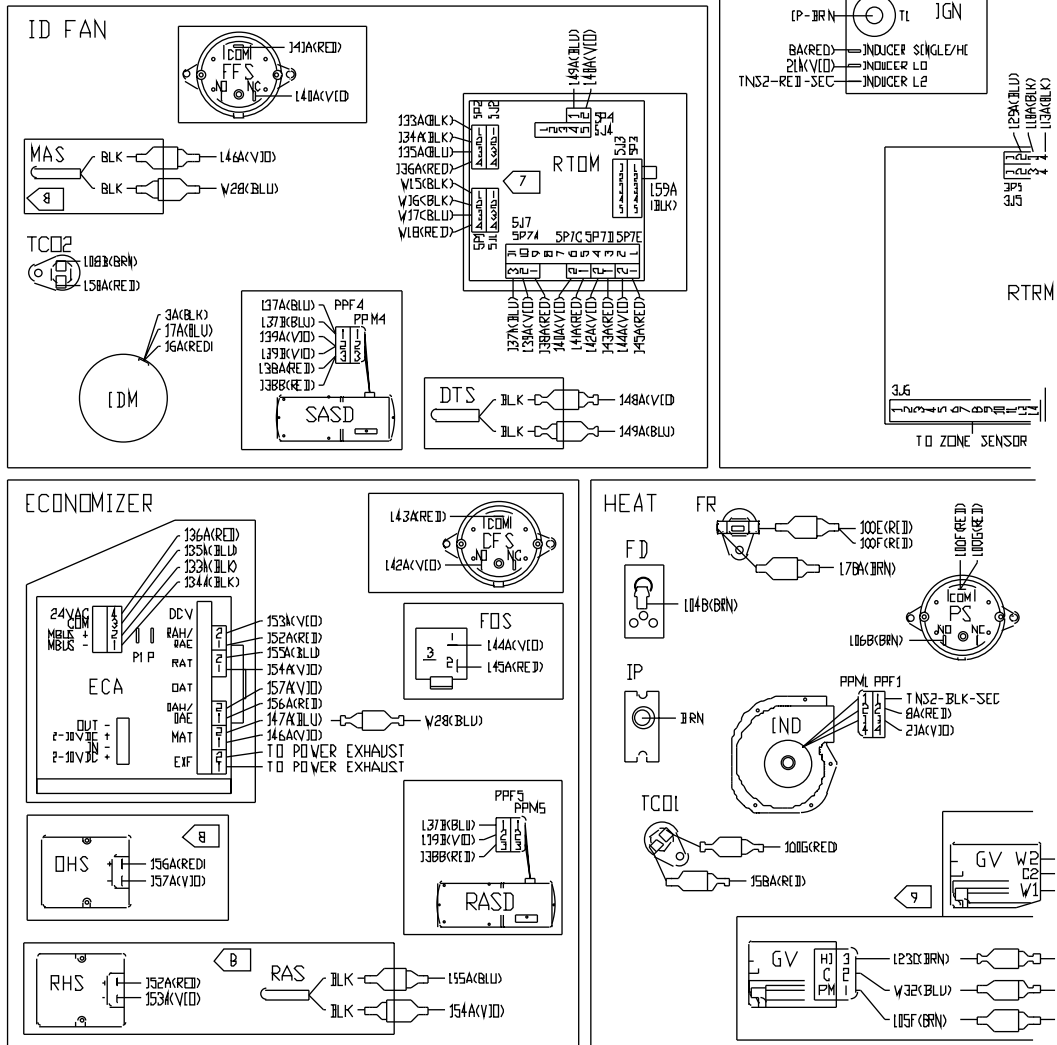




# Diagram 23

## Connection Diagram - 460-575v/60hz/3ph 6 - 7.5 Ton Gas Heat / Single Compressor 4366-1540

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 380V/60HZ/3PH OR 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 480V/575V TERMINAL.
5. CONNECTIONS SHOWN ARE FOR 380V/60HZ/3PH OR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE TNS2-BLU-PRI FROM CCJ-L2 AND CONNECT WIRE TNS2-BLK-PRI TO CCJ-L2.
6. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE ID FAN AND ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO THE RTM. IF COMM JS IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4 TO 3J4 ON RTM.
7. CONNECTIONS SHOWN INCLUDE OPTIONAL RTM. IF RTM IS NOT INSTALLED, CONNECT 5P1 AND 5P2 THROUGH GENDER CHANGER HARNESS 4366-1172-01.
8. OPTIONAL MAS, RAS, RHS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION WHEN 1-STAGE OPERATION IS REQUIRED. WIRE 123(BRN) IS NOT CONNECTED TO IGN. WIRE 123(BRN) IS NOT CONNECTED TO GV. WIRE 129A(BLU) (IF PRESENT) IS CUT AND ISOLATED. WIRE 105(BRN) IS CONNECTED TO 6V-M (NOT SHOWN, 60-HZ ONLY), AND 6V PINS 3 AND 3 ARE JUMPED WITH WIRE W37(BRN) (NOT SHOWN, 50-HZ ONLY).
10. WIRE TNS2-G/Y IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.



**⚠ WARNING**

**HAZARDOUS VOLTAGE!**  
DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**⚠ AVERTISSEMENT**

**VOLTAGE HASARDEUX!**  
DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUÉS A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.

FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

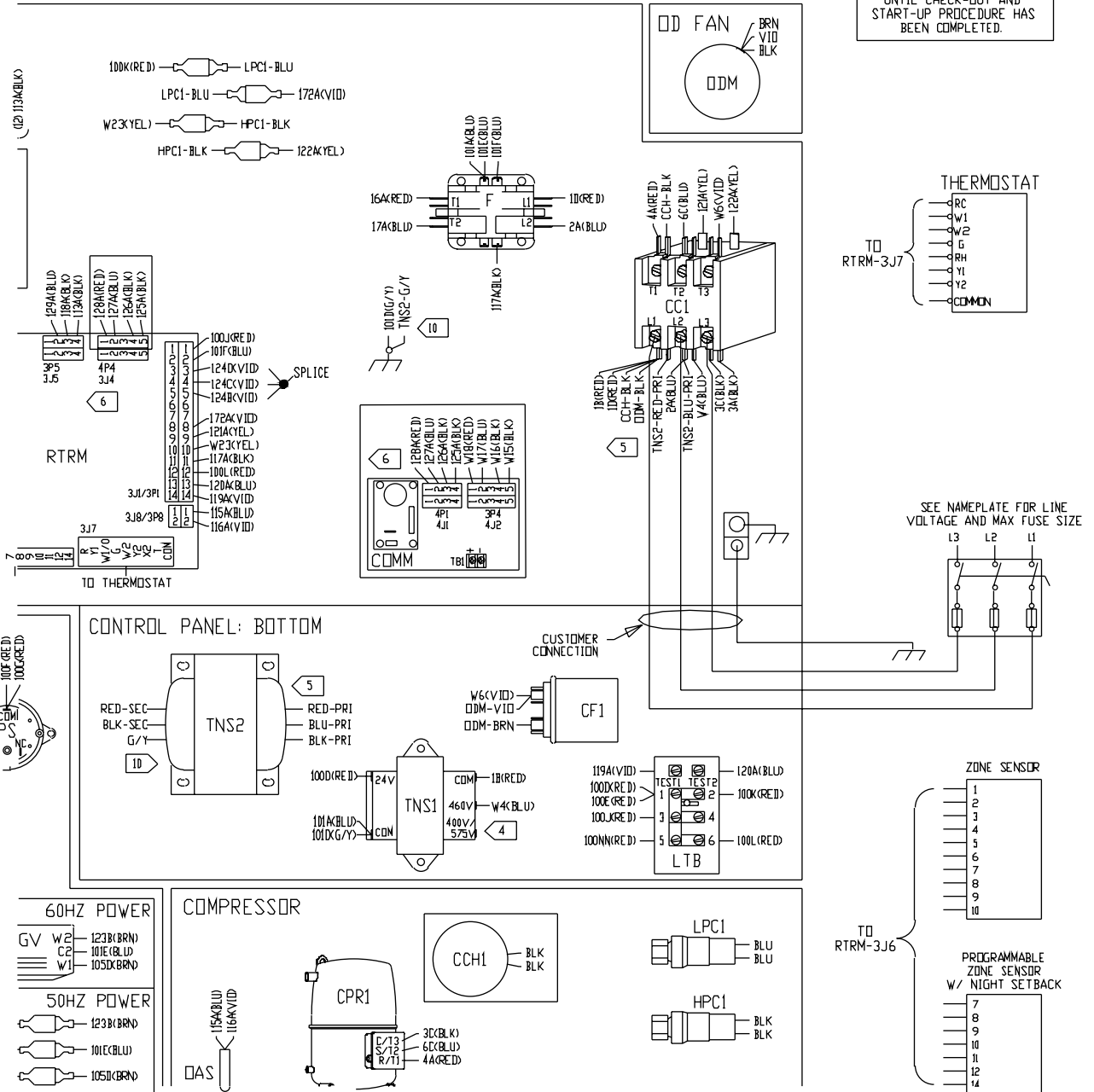
**⚠ CAUTION**

USE COPPER CONDUCTORS ONLY!  
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

**IMPORTANT!**

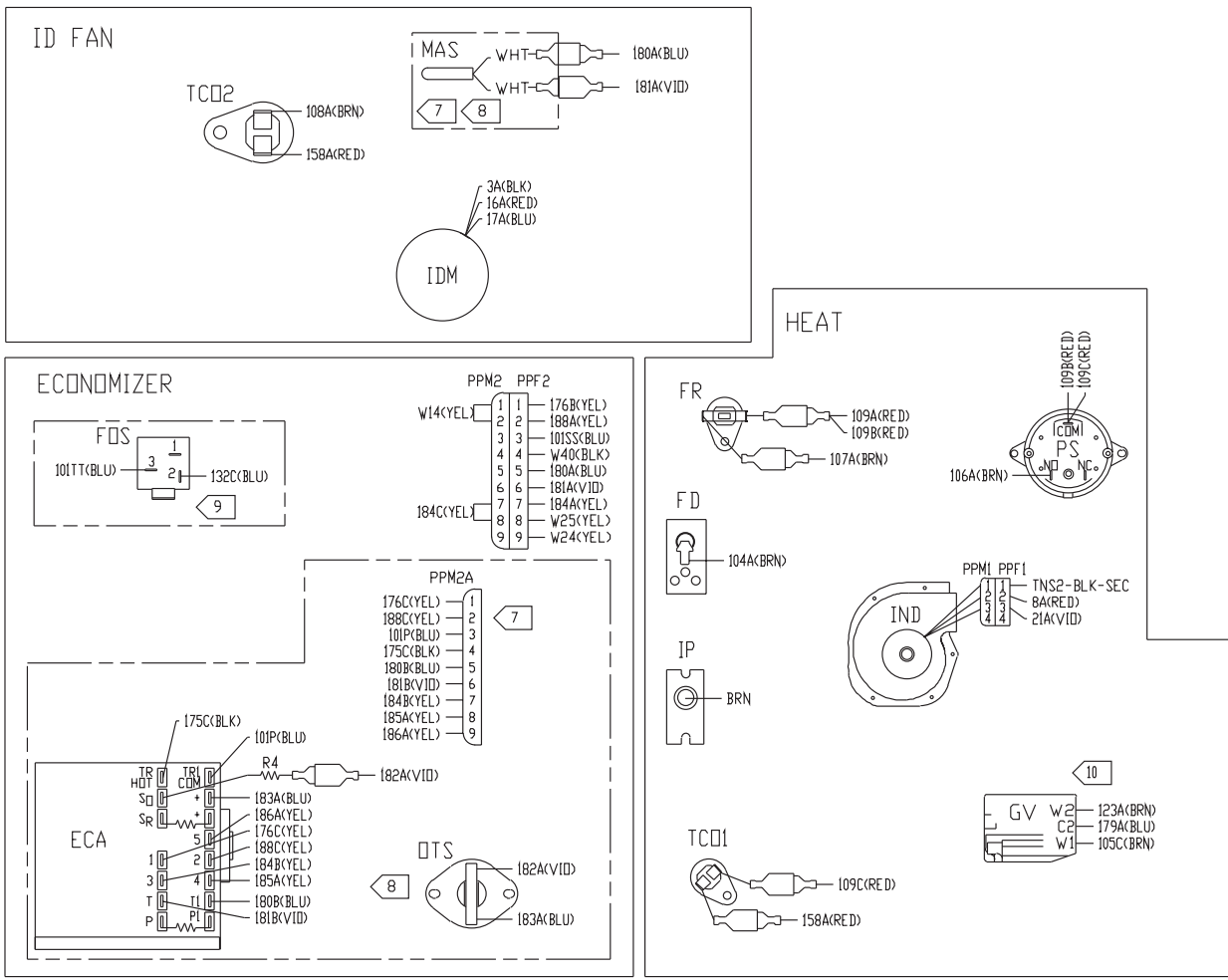
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.



# Diagram 24

## Connection Diagram - 460-575v/60hz/3ph 7.5 - 10 Ton Gas Heat / Dual Compressor 4366-1532

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
4. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 380V/60HZ/3PH OR 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4(BLU) FROM THE 460V TERMINAL ON TNS1 TO THE 400V/575V TERMINAL.
5. CONNECTIONS SHOWN ARE FOR 380V/60HZ/3PH OR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE TNS2-BLU-PRI FROM CCI-L2 AND CONNECT WIRE TNS2-BLK-PRI TO CCI-L2.
6. CCH2 CONDUCTORS ARE IDENTIFIED BY BROWN TAPE PLACED NEAR WIRE TERMINATIONS INSIDE CONTROL PANEL.
7. WHEN INSTALLING ECONOMIZER, REMOVE PPM2 FROM PPF2, CONNECT PPM2A TO PPF2, AND CONNECT MAS TO WIRES 180A(BLU) AND 181A(VID).
8. FOR MOTORIZED OUTSIDE AIR DAMPER, OPTIONAL MAS AND OTS (AND ASSOCIATED WIRING) ARE NOT USED, AND R4 IS REMOVED BETWEEN SO AND + ON ECA.
9. CONNECTIONS SHOW OPTIONAL FDS INSTALLED. IF FDS IS NOT INSTALLED, CONNECT WIRE W27(BLU) TO WIRE 132A(BLU).
10. CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 102B(BLK) IS REMOVED, WIRES 21A(VID), 101NN(BLU), AND 174A(BRN) ARE NOT CONNECTED TO IGN, WIRE 123A(BRN) IS NOT CONNECTED TO GV, AND WIRE 105C(BRN) IS CONNECTED TO GV-M1 (NOT SHOWN).
11. WIRE TNS2-G/Y IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.



**WARNING**  
HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**AVERTISSEMENT**  
VOLTAGE HASARDEUX!

DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUES A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.

FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**CAUTION**

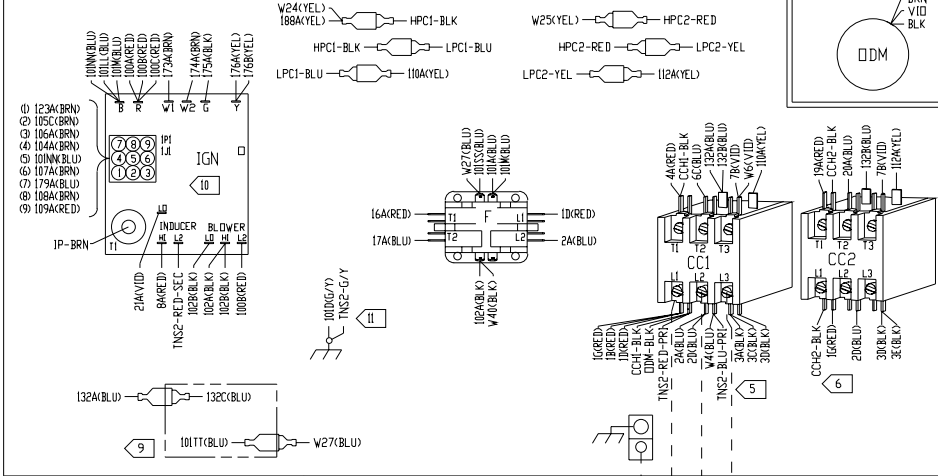
USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

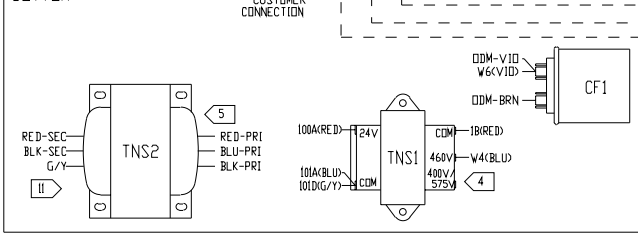
**IMPORTANT!**

DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

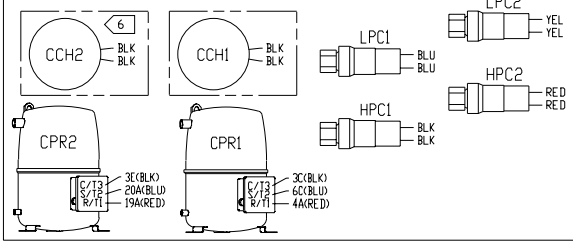
**CONTROL PANEL**



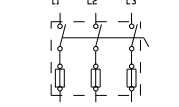
**CONTROL PANEL: BOTTOM**



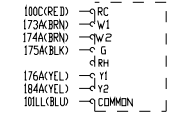
**COMPRESSOR**



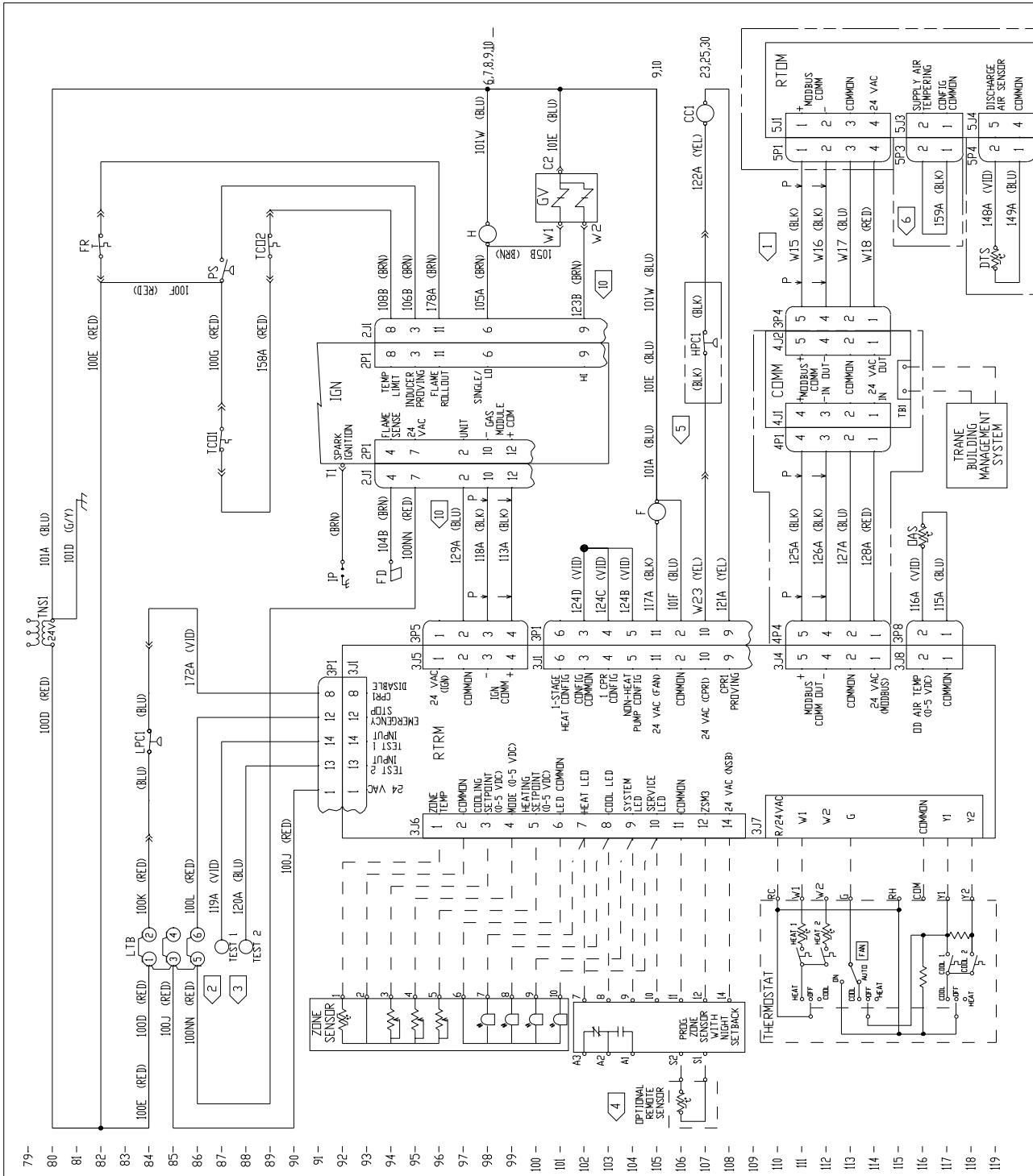
SEE NAMEPLATE FOR LINE VOLTAGE AND MAX FUSE SIZE



**THERMOSTAT**

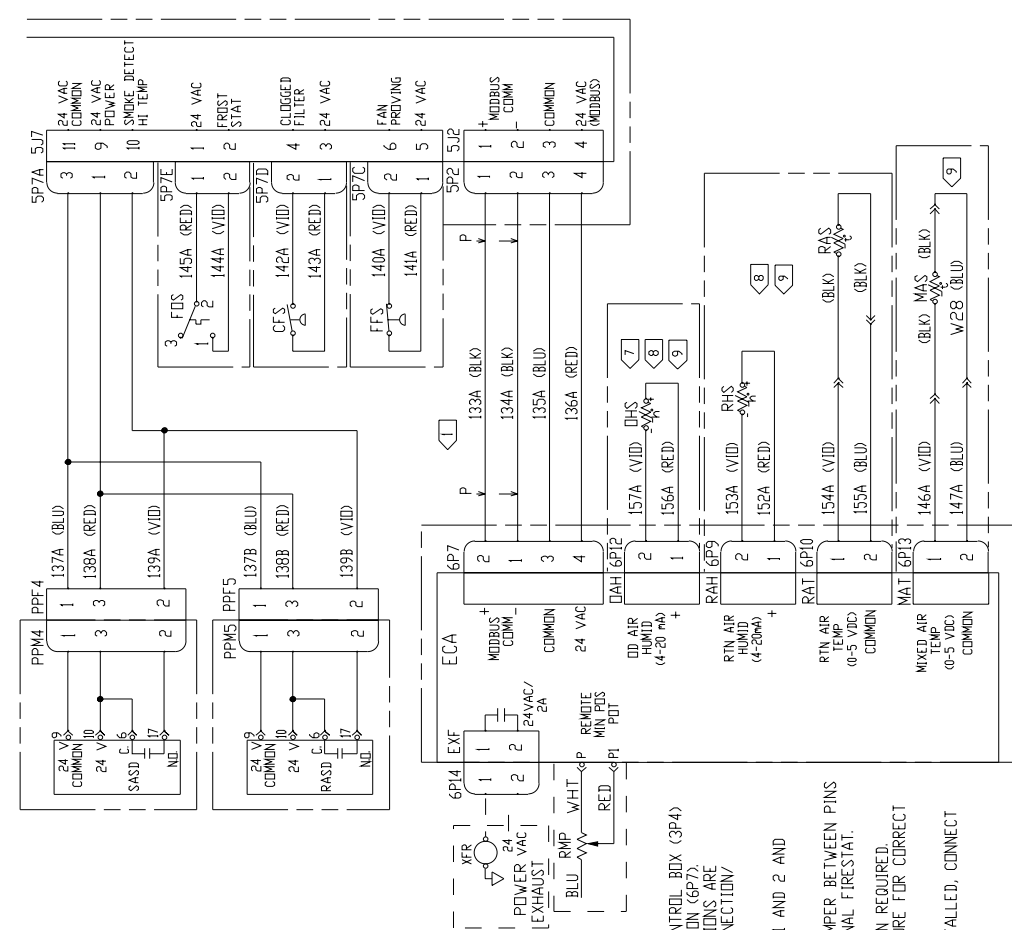


**Diagram 25**  
**Control Schematic -**  
**2 - 5 Ton Single Stage Gas Heat / Direct Drive**  
**4366-1006**



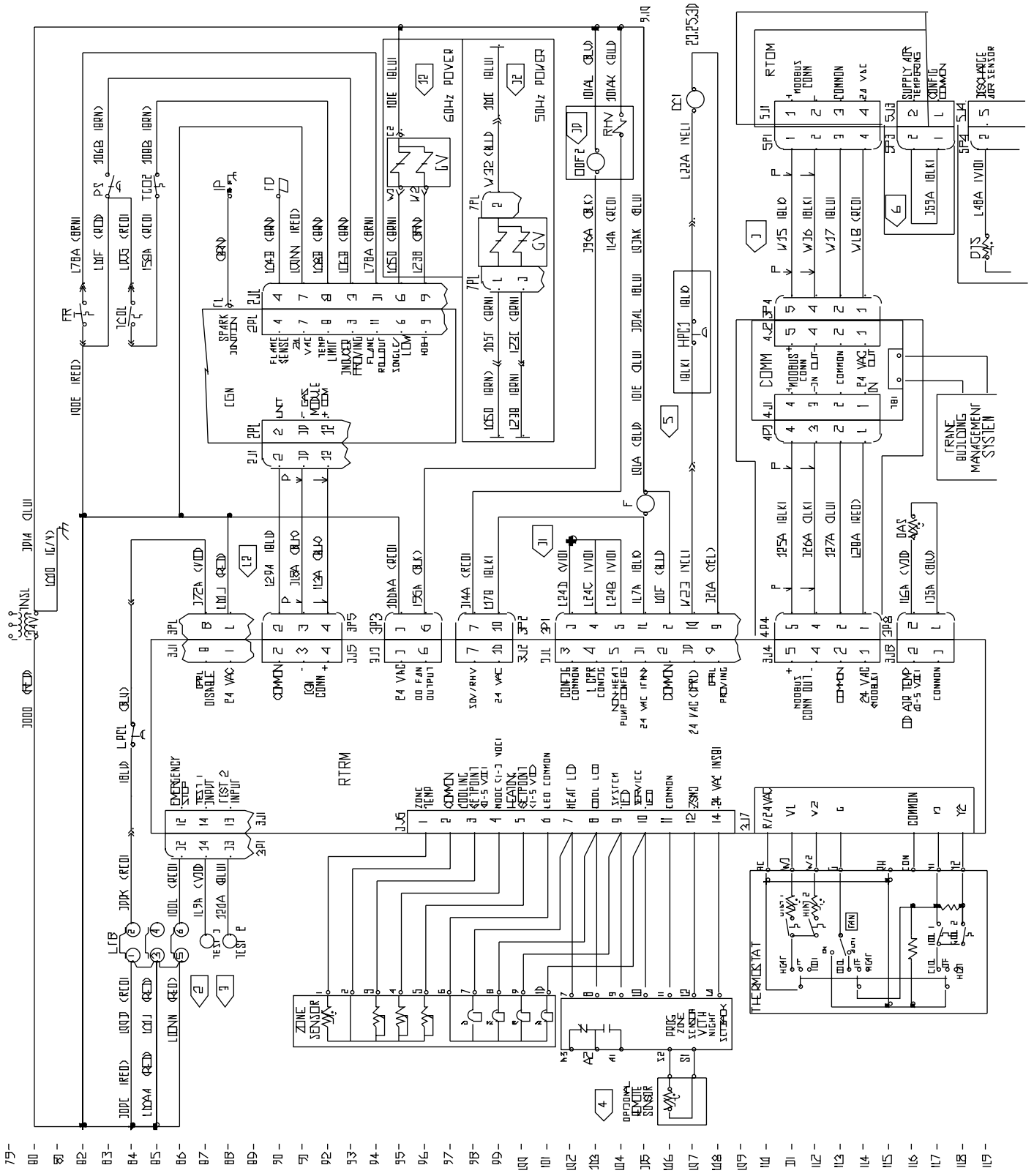
119 -

REF	DESCRIPTION	LINE
120 -	COMPRESSOR CONTACTOR	107
121 -	CLOGGED FILTER SWITCH	129
122 -	COMMUNICATIONS MODULE III-114	119
123 -	DISCHARGE AIR SENSOR	135-150
124 -	ECONOMIZER ACTUATOR	105
125 -	FAN RELAY	94
126 -	FLAME DETECTOR	132
127 -	FAN FAIL SWITCH	126
128 -	FROSTAT	82
129 -	GAS VALVE	101
130 -	HEAT RELAY	98
131 -	HIGH PRESSURE OUTPUT	107
132 -	IGNITION MODULE	92-102
133 -	IGNITER	92
134 -	IP	92
135 -	LPC LOW PRESSURE CONTROL	84
136 -	LOW VOLTAGE TERM BLOCK	84-88
137 -	MIXED AIR SENSOR	149
138 -	OD AIR HUMIDITY SENSOR	140
139 -	PRESSURE SWITCH	87
140 -	RAS	146
141 -	RASD RTN AIR SMOKE DETECTOR	128-131
142 -	RHS RTN AIR HUMIDITY SENSOR	143
143 -	RTDM OPTIONS MODULE III-138	92-108
144 -	RTRM REFRIGERATION MODULE	92-108
145 -	SASD SUPPLY AIR SMOKE DETECTOR	122-125
146 -	TC01 TEMP LIMIT 1	87
147 -	TC02 TEMP LIMIT 2	89
148 -	TNS1 LOW VOLTAGE TRANSFORMER	80

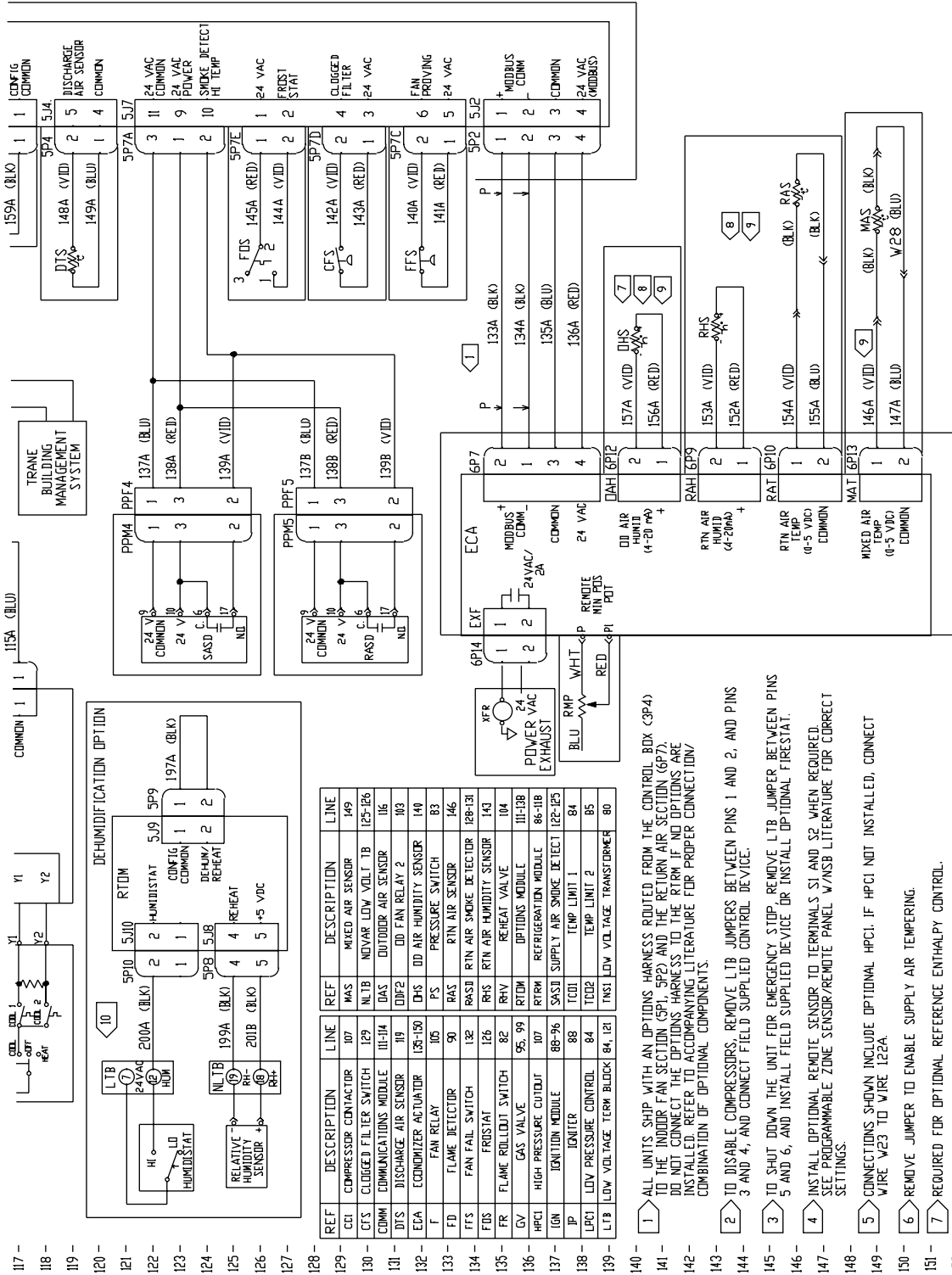


- 141 - 1 TO ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL BOX (3P4) TO THE INDOOR FAN SECTION (6P1, SP2) AND THE RETURN AIR SECTION (6P7). DO NOT CONNECT THE OPTIONS HARNESS TO THE RTRM IF NO OPTIONS ARE INSTALLED. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
- 144 - 2 TO DISABLE COMPRESSORS, REMOVE LTB JUMPERS BETWEEN PINS 1 AND 2 AND PINS 3 AND 4, AND CONNECT FIELD SUPPLIED CONTROL DEVICE.
- 146 - 3 TO SHUT DOWN THE UNIT FOR EMERGENCY STOP, REMOVE LTB JUMPER BETWEEN PINS 5 AND 6, AND INSTALL FIELD SUPPLIED DEVICE OR INSTALL OPTIONAL FIRESTAT.
- 147 - 4 INSTALL OPTIONAL REMOTE SENSOR TO TERMINALS S1 AND S2 WHEN REQUIRED. SEE PROGRAMMABLE ZONE SENSOR/REMOTE PANEL W/ANSB LITERATURE FOR CORRECT SETTINGS.
- 149 - 5 CONNECTIONS SHOWN INCLUDE OPTIONAL HPCI. IF HPCI IS NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
- 151 - 6 REMOVE JUMPER TO ENABLE SUPPLY AIR TEMPERING.
- 152 - 7 REQUIRED FOR OPTIONAL REFERENCE ENTHALPY CONTROL.
- 153 - 8 REQUIRED FOR OPTIONAL COMPARATIVE ENTHALPY CONTROL.
- 154 - 9 OPTIONAL MAS, RAS, RHS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
- 156 - 10 (FUTURE) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 123B IS NOT CONNECTED TO GV, WIRE 129A (IF PRESENT) IS CUT AND ISOLATED, AND WIRE 105B IS CONNECTED TO GV-M.

**Diagram 26**  
**Control Schematic -**  
**2 - 5 Ton Single Stage Gas Heat / Belt Drive or Oversize Motor**  
**4366-1015**

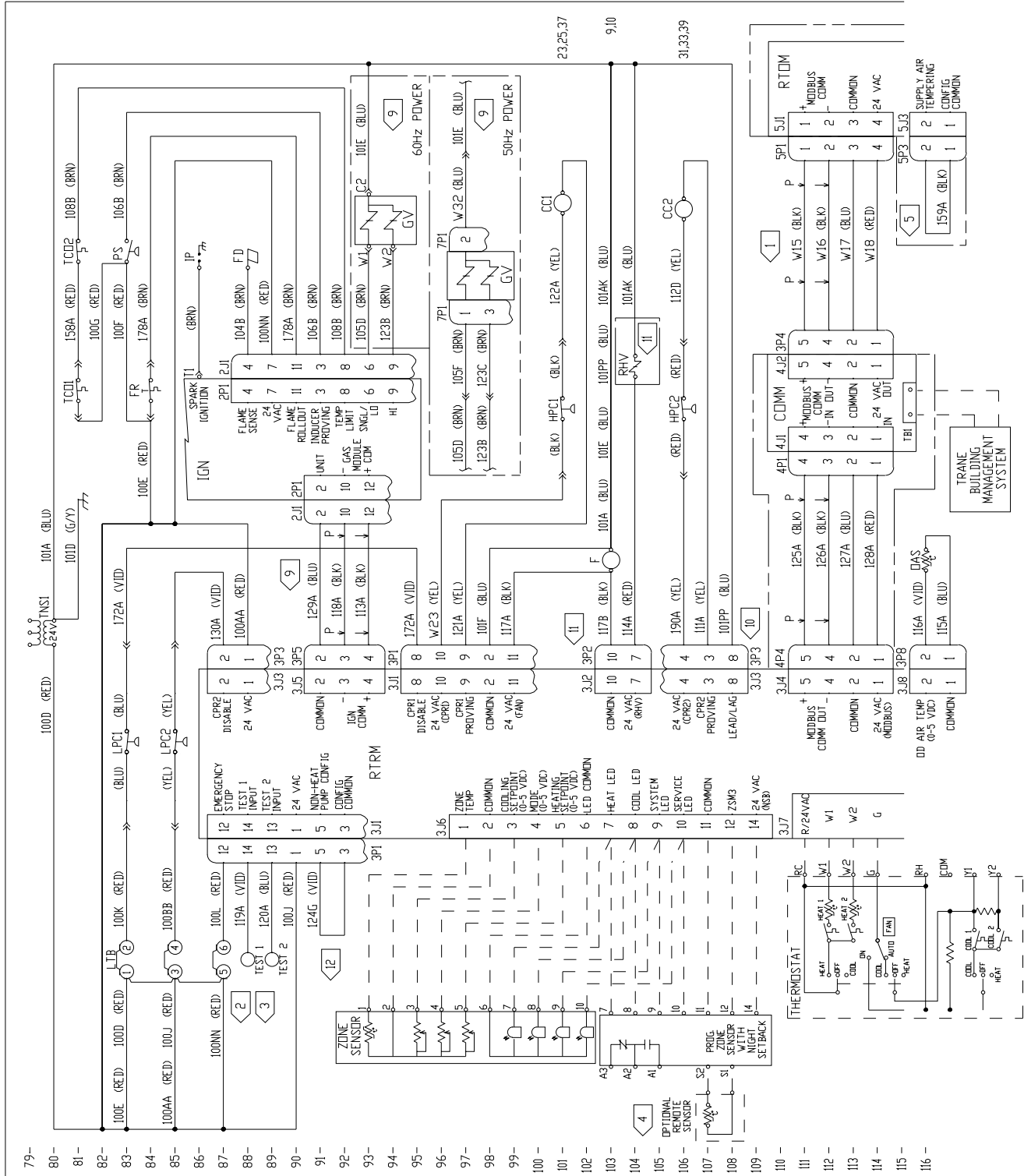


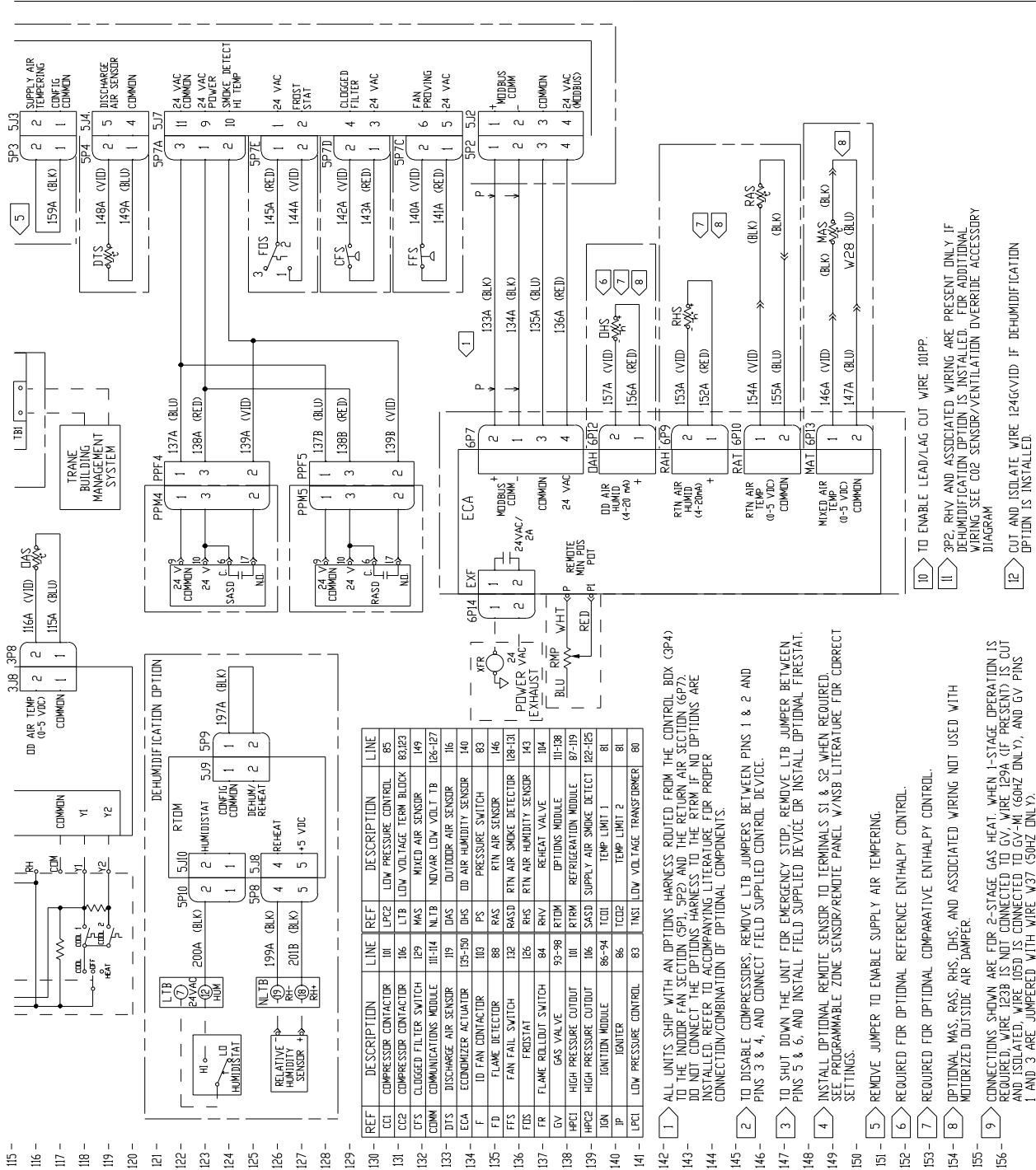




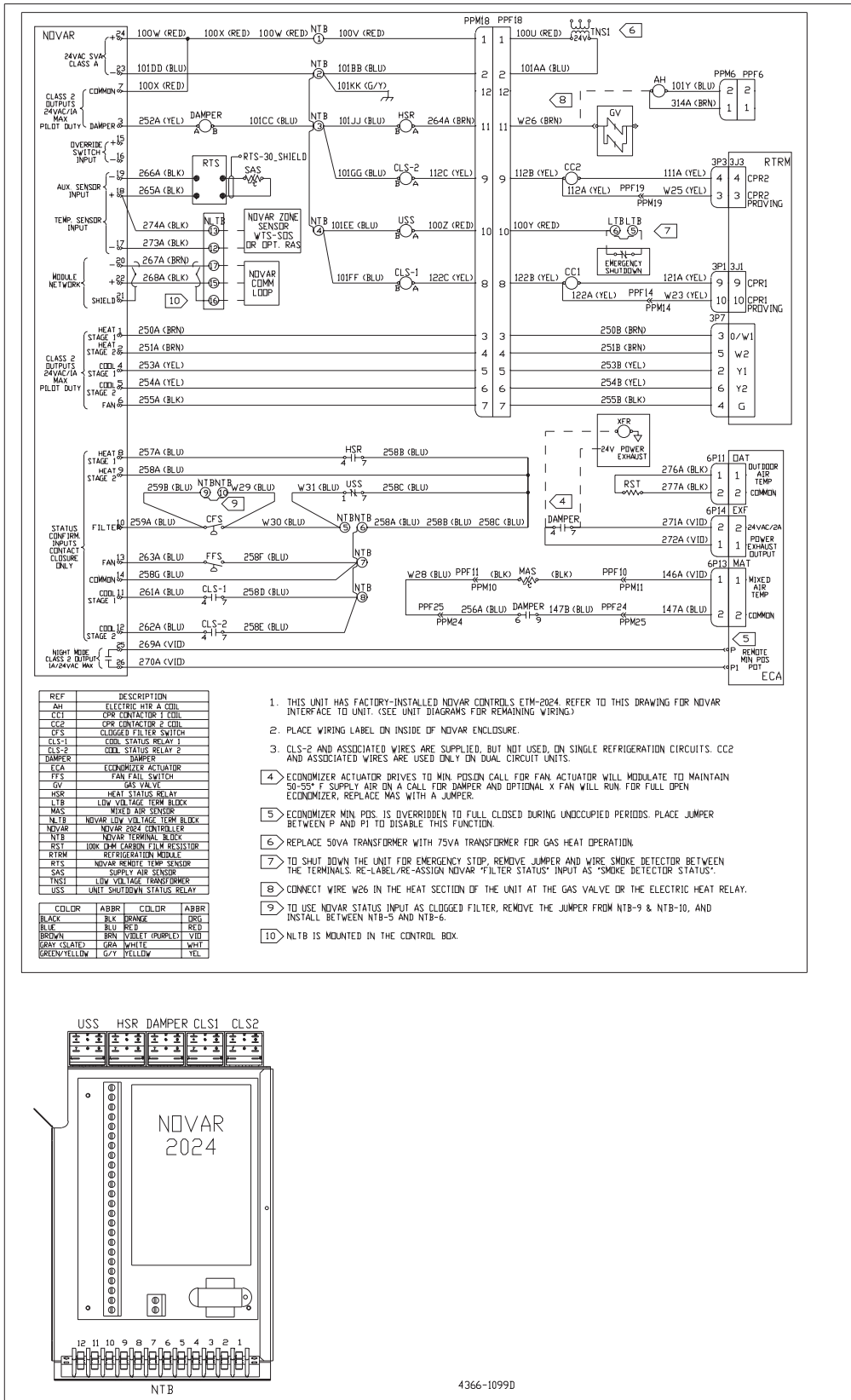
- 1 ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL BOX (3P4) TO THE INDOOR FAN SECTION (5P1, 5P2) AND THE RETURN AIR SECTION (6P7). DO NOT CONNECT THE OPTIONS HARNESS TO THE RTM IF NO OPTIONS ARE INSTALLED. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION COMBINATION OF OPTIONAL COMPONENTS.
- 2 TO DISABLE COMPRESSORS, REMOVE LTB JUMPERS BETWEEN PINS 1 AND 2, AND PINS 3 AND 4, AND CONNECT FIELD SUPPLIED CONTROL DEVICE.
- 3 TO SHUT DOWN THE UNIT FOR EMERGENCY STOP REMOVE LTB JUMPER BETWEEN PINS 5 AND 6, AND INSTALL FIELD SUPPLIED DEVICE OR INSTALL OPTIONAL FROST STAT.
- 4 INSTALL OPTIONAL REMOTE SENSOR TO TERMINALS S1 AND S2 WHEN REQUIRED. SEE PROGRAMMABLE ZONE SENSOR/REMOTE PANEL W/MSB LITERATURE FOR CORRECT SETTINGS.
- 5 CONNECTIONS SHOWN INCLUDE OPTIONAL HPCI. IF HPCI NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
- 6 REMOVE JUMPER TO ENABLE SUPPLY AIR TEMPERING.
- 7 REQUIRED FOR OPTIONAL REFERENCE ENTHALPY CONTROL.
- 8 REQUIRED FOR OPTIONAL COMPARATIVE ENTHALPY CONTROL.
- 9 OPTIONAL MAS, RAS, RHS, DHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
- 10 3P2, 3P3, DDF2, RAV AND ASSOCIATED WIRING ARE PRESENT ONLY IF DEHUMIDIFICATION OPTION IS INSTALLED. FOR ADDITIONAL WIRING SEE CO2 SENSOR/VENTILATION OVERRIDE ACCESSORY DIAGRAM.
- 11 CUT AND ISOLATE WIRE 124B IF DEHUMIDIFICATION OPTION IS INSTALLED.
- 12 CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 123B IS NOT CONNECTED TO GV, WIRE 129A (IF PRESENT) IS CUT AND ISOLATED, WIRE 105D IS CONNECTED TO GV-WH (60HZ ONLY), AND GV PINS 1 AND 3 ARE JUMPED WITH WIRE W37 (50HZ ONLY).

**Diagram 27**  
**Control Schematic -**  
**7.5 -10 Ton Gas Heat**  
**4366-1042**

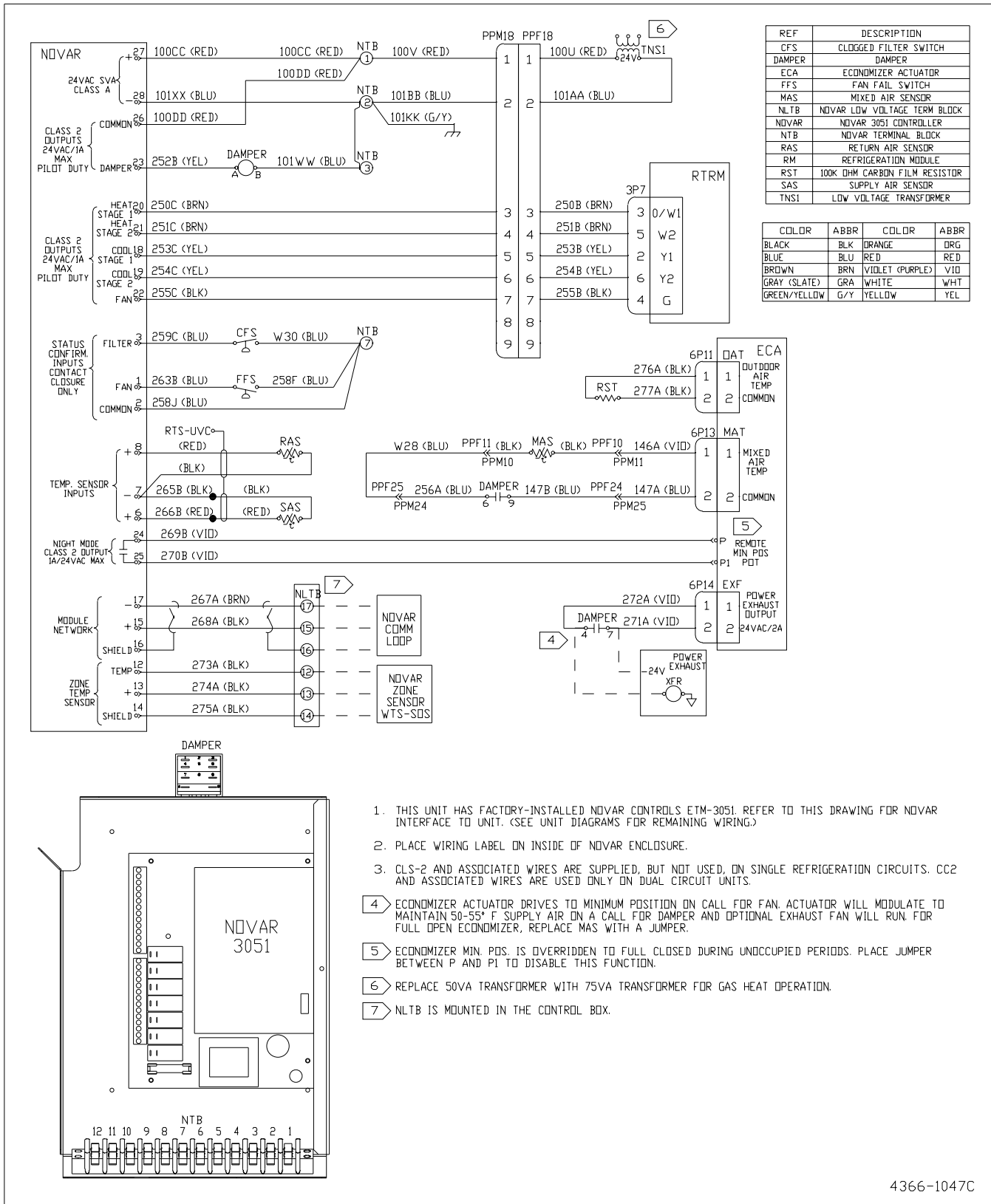




**Diagram 28**  
**Novar Schematic -**  
**2024**



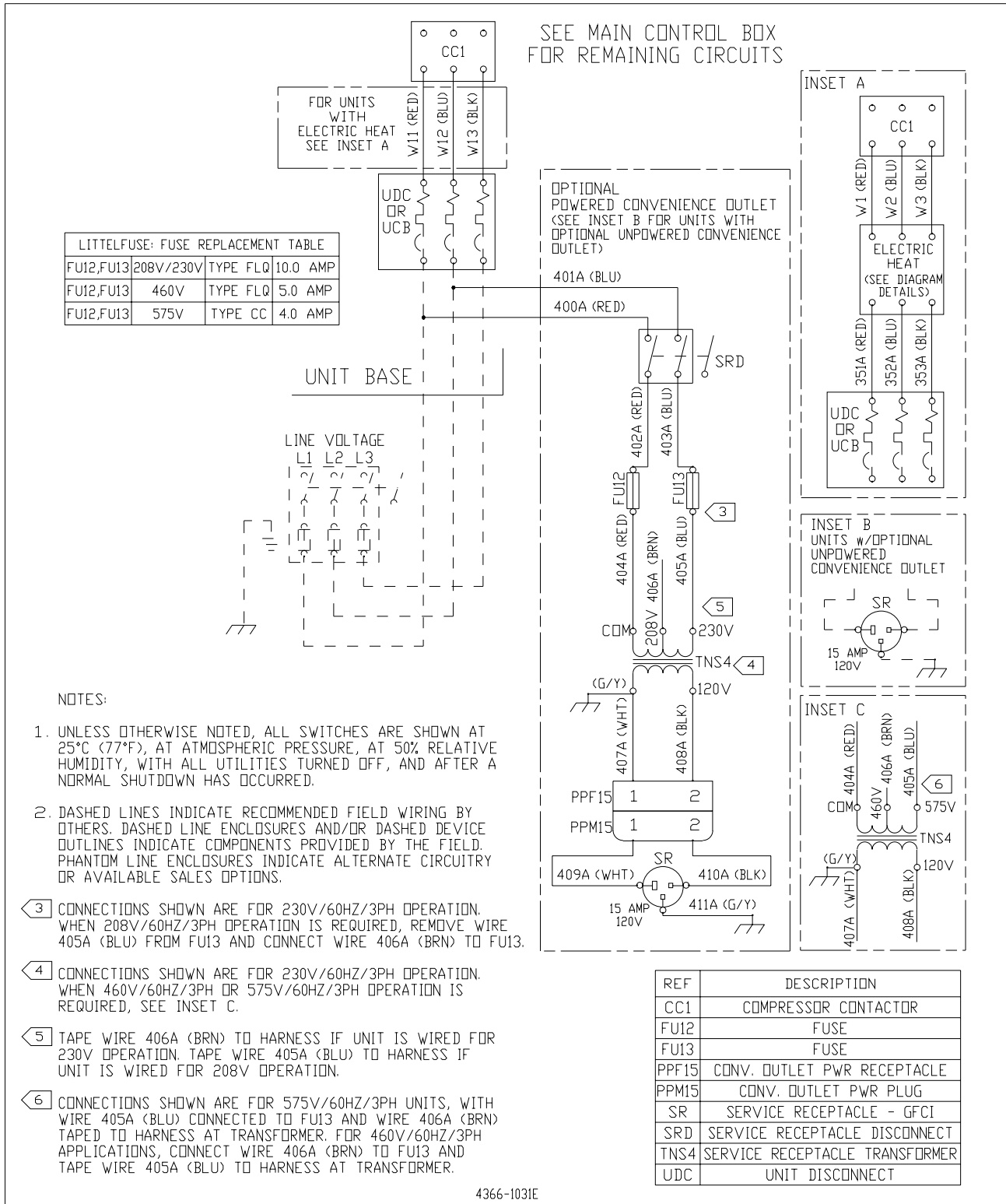
**Diagram 29**  
**Novar Schematic -**  
**3051**



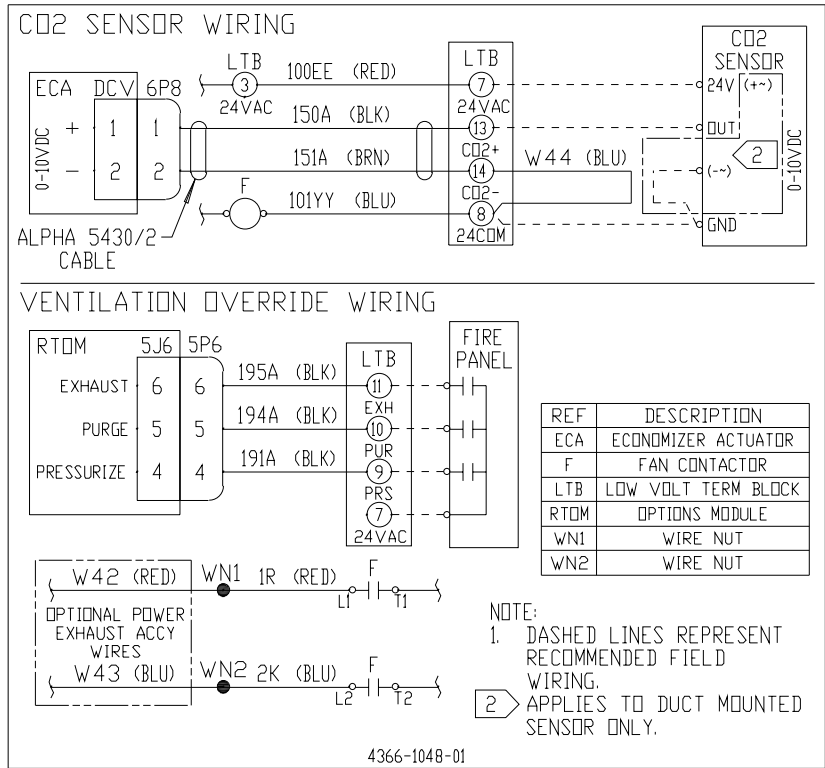
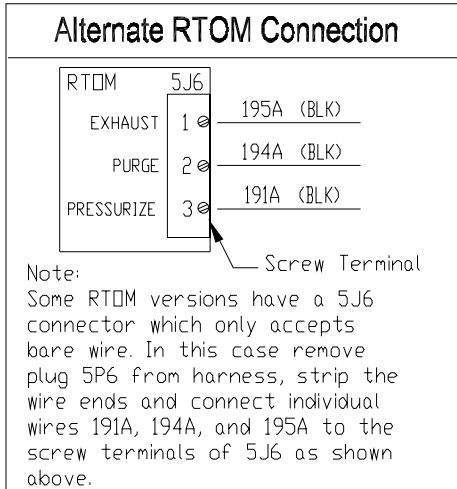
1. THIS UNIT HAS FACTORY-INSTALLED NOVAR CONTROLS ETM-3051. REFER TO THIS DRAWING FOR NOVAR INTERFACE TO UNIT. (SEE UNIT DIAGRAMS FOR REMAINING WIRING.)
2. PLACE WIRING LABEL ON INSIDE OF NOVAR ENCLOSURE.
3. CLS-2 AND ASSOCIATED WIRES ARE SUPPLIED, BUT NOT USED, ON SINGLE REFRIGERATION CIRCUITS. CC2 AND ASSOCIATED WIRES ARE USED ONLY ON DUAL CIRCUIT UNITS.
4. ECONOMIZER ACTUATOR DRIVES TO MINIMUM POSITION ON CALL FOR FAN. ACTUATOR WILL MODULATE TO MAINTAIN 50-55° F SUPPLY AIR ON A CALL FOR DAMPER AND OPTIONAL EXHAUST FAN WILL RUN. FOR FULL OPEN ECONOMIZER, REPLACE MAS WITH A JUMPER.
5. ECONOMIZER MIN. POS. IS OVERRIDDEN TO FULL CLOSED DURING UNOCCUPIED PERIODS. PLACE JUMPER BETWEEN P AND PI TO DISABLE THIS FUNCTION.
6. REPLACE 50VA TRANSFORMER WITH 75VA TRANSFORMER FOR GAS HEAT OPERATION.
7. NLTB IS MOUNTED IN THE CONTROL BOX.

4366-1047C

**Diagram 30**  
**Through The Base Utilities Schematic -**



**Diagram 31**  
**CO<sub>2</sub> Sensor / Ventilation Override Schematic**





---

Literature Order Number	Y_C-SVE002B-EN
File Number	SV-UN-Y_C-SVE002B-EN 11/04
Supersedes	New
Stocking Location	Webb Mason

*The manufacturer has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.*