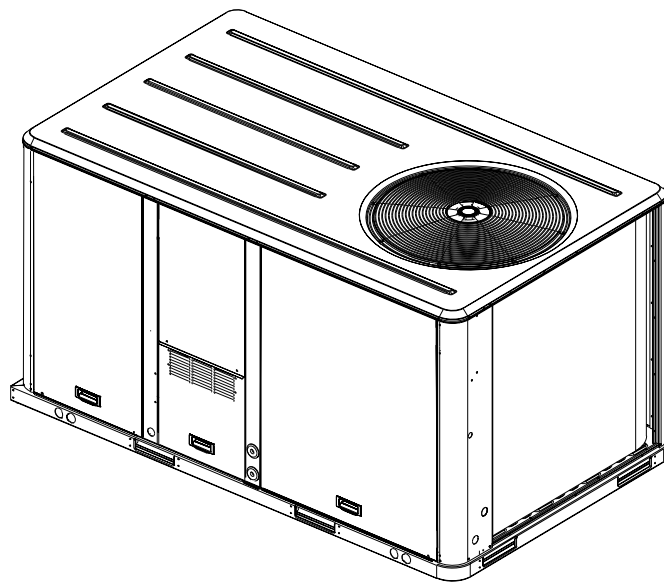


# Wiring Manual

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## Packaged Gas/Electric

*3 - 10 Tons with ReliaTel™ Controls*



**Model Number:**

YSC036A\*R - YSC120A\*R    YSC036E\*R - YSC060E\*E  
YHC033A\*R - YHC120A\*R    YHC036E\*R - YHC060E\*R

# Preface and Warnings and Cautions

---

## Hazard Identification

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.

## Literature Change History

Y\_C-SVE-001A-EN (Nov. 2003)

Updated wiring diagrams.

Y\_C-SVE-001B-EN (Jan. 2005)

Updated wiring diagrams.

Y\_C-SVE001C-EN (October 2006)

15 SEER additions

## 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.

## Model Number Description

All products are identified by a multiple-character model number that precisely identifies a particular type of unit. Its use will enable the owner/operator, installing contractors, and service engineers to define the operation, specific components, and other options for any specific unit.

When ordering replacement parts or requesting service, be sure to refer to the specific model number and serial number printed on the unit nameplate.

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# Model Number Description

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

## DIGIT 1 - Unit Function

T = DX Cooling

## 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 Compressor

102= 8½ Ton

120= 10 Ton

## DIGIT 7 - Major Design Sequence

A = First

E = R410A Refrigerant

## 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



## Model Number Description

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### **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

# Power Schematic

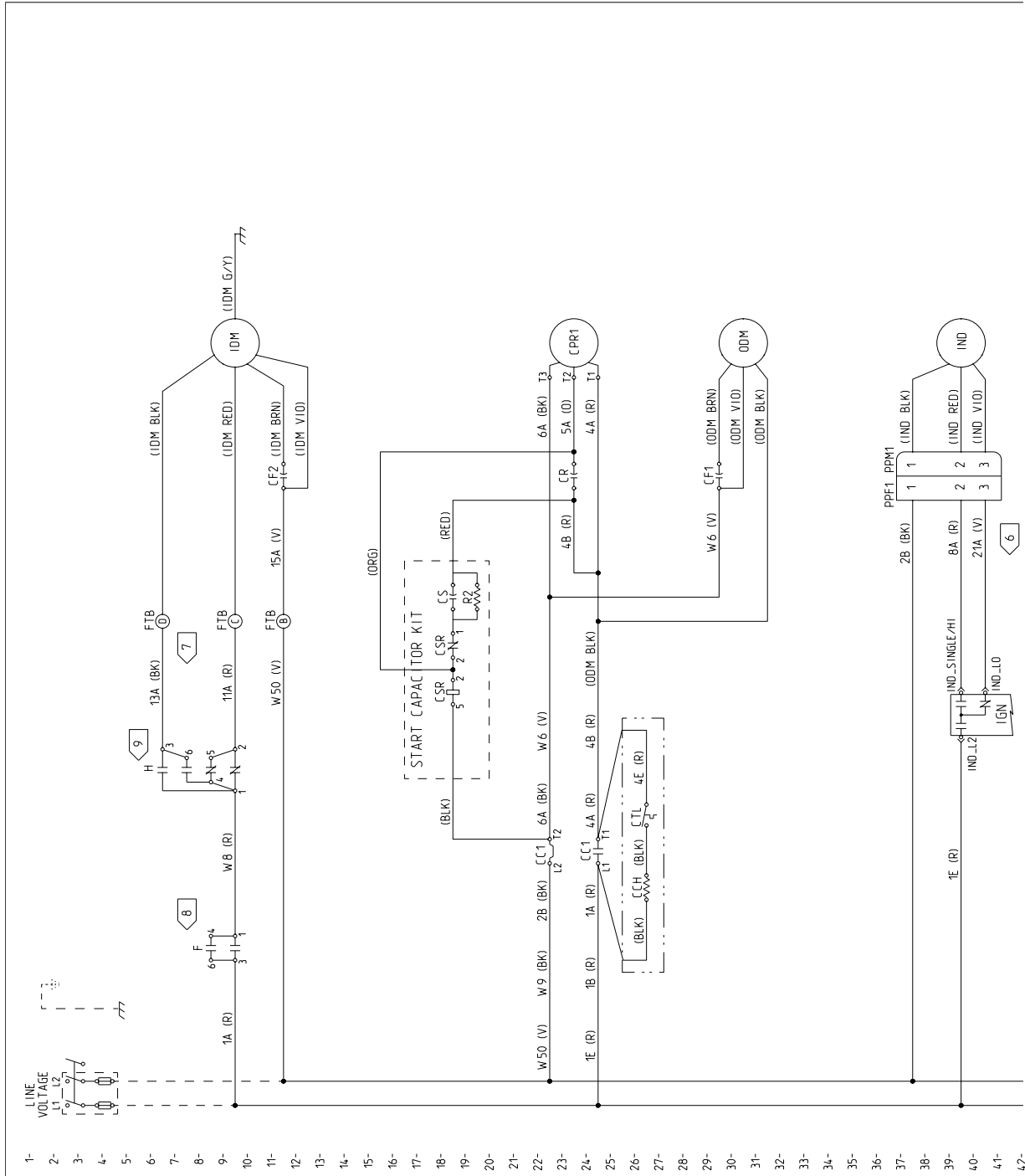


Figure 1. 230v/60hz/1ph – 3 - 5 Ton Single Stage Gas Heat / Direct Drive Motor – 4366-1002

# Power Schematic

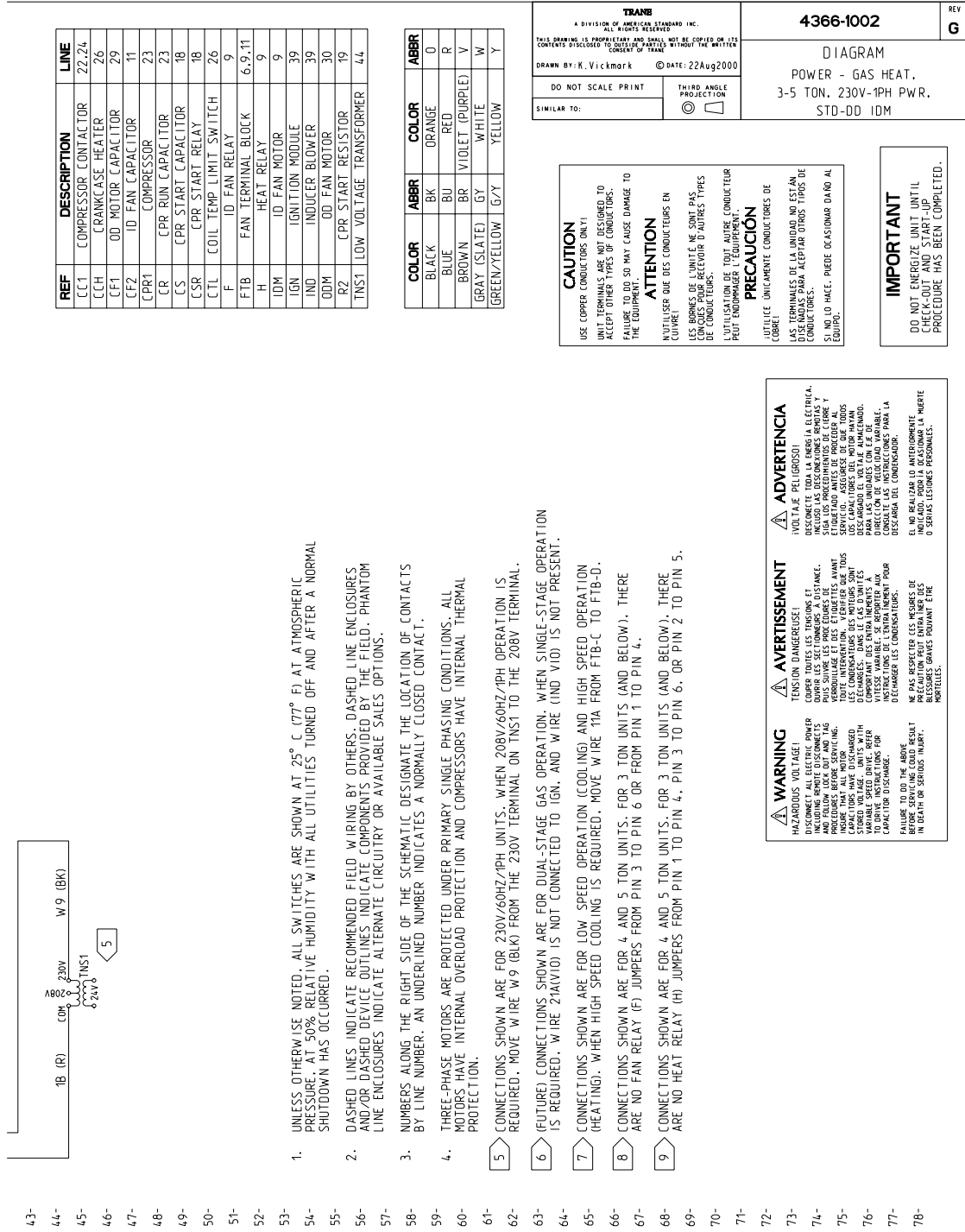


Figure 1. (continued from previous page) 230v/60hz/1ph — 3 - 5 Ton Single Stage Gas Heat / Direct Drive Motor — 4366-1002



# Power Schematic

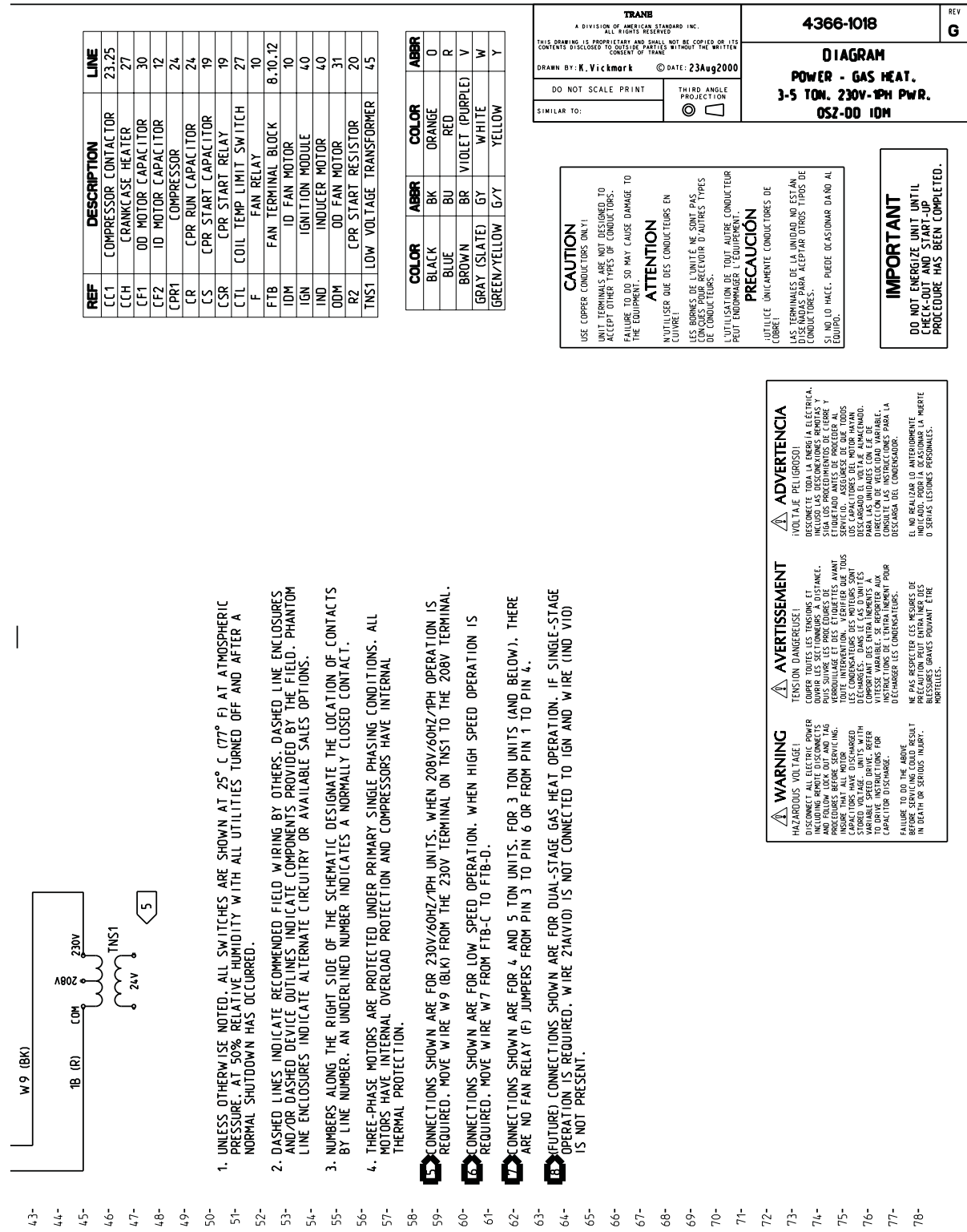


Figure 2. (continued from previous page) 230v/60hz/1ph – 2 - 5 Ton Single Stage Gas Heat / Oversize Drive Motor – 4366-1018



# Power Schematic

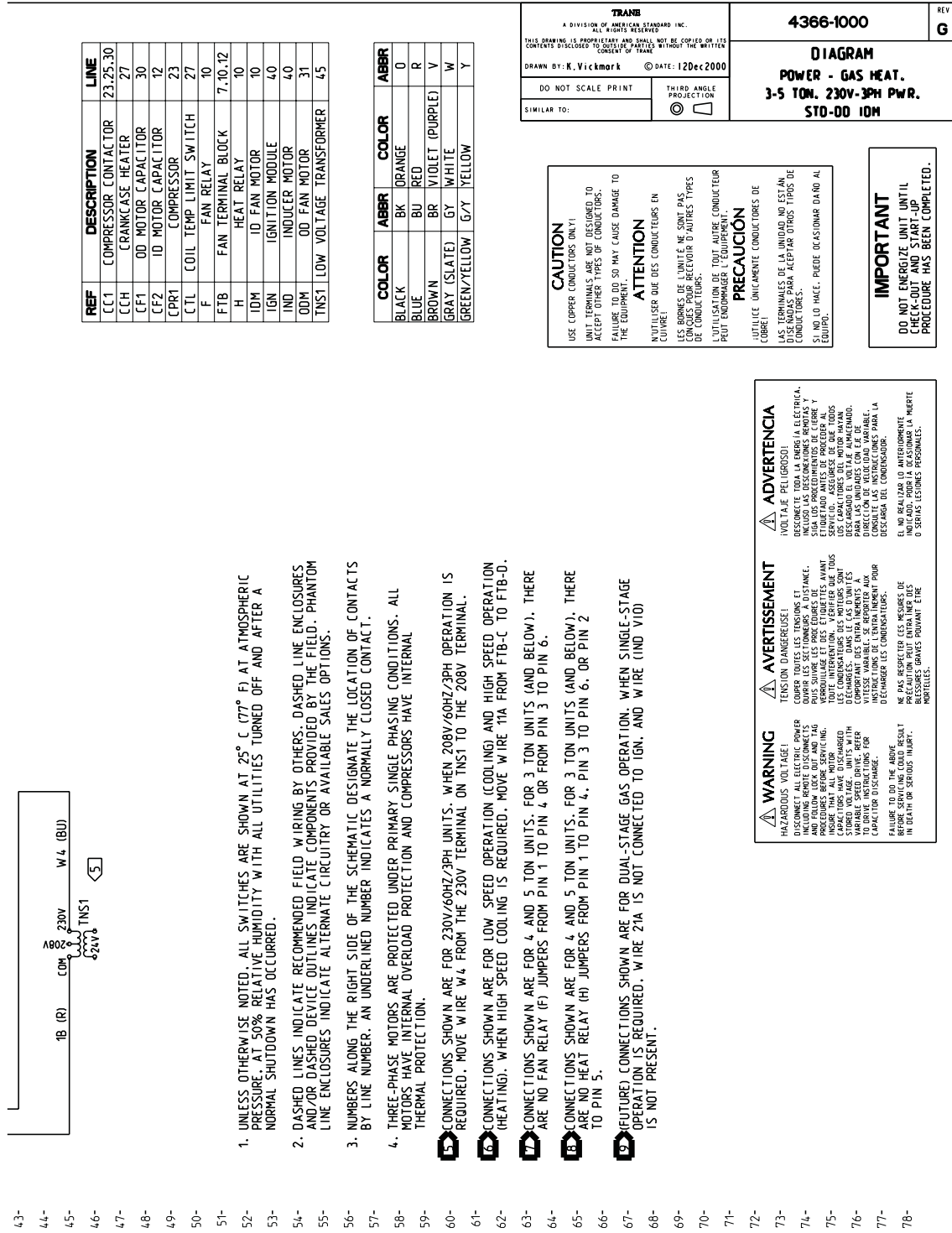


Figure 3. (continued from previous page) 230v/60hz/3ph — 2 - 5 Ton Single Stage Gas Heat / Direct Drive Motor — 4366-1000





# Power Schematic

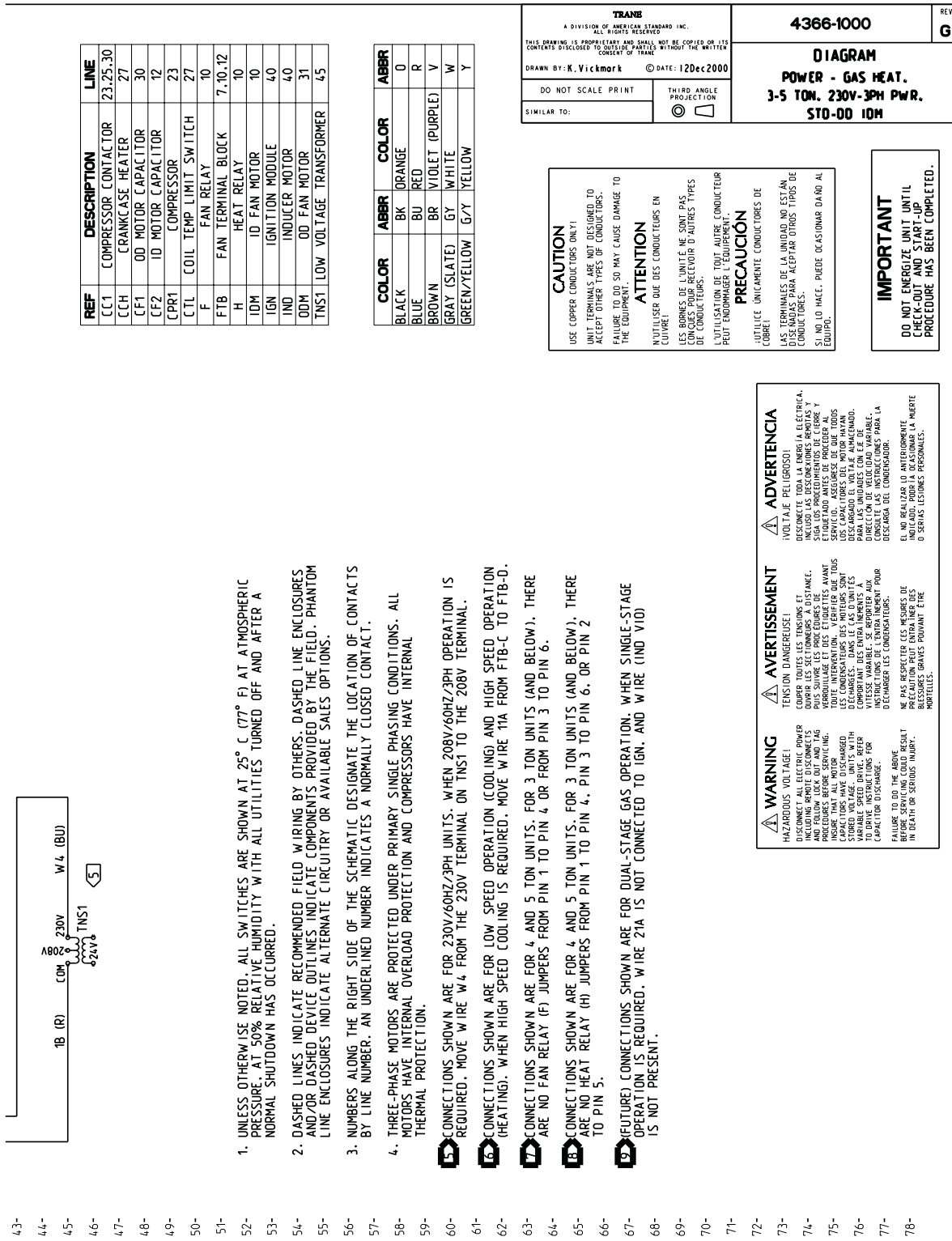


Figure 4. (continued from previous page) 230v/60hz/3ph — 2 - 5 Ton Single Stage Gas Heat / Oversize Drive Motor — 4366-1017

# Power Schematic

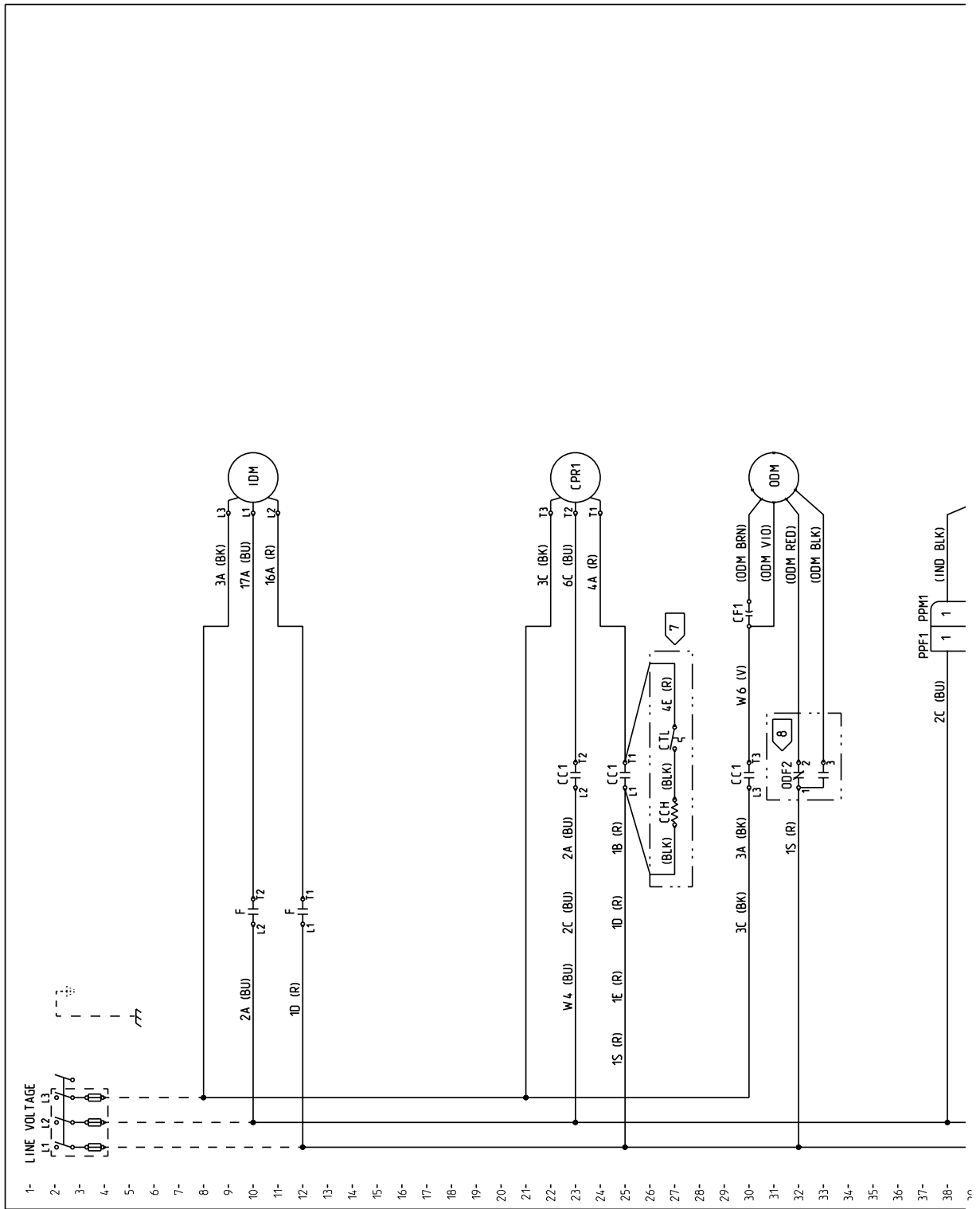


Figure 5. 230v/60hz/3ph – 2 - 7.5 Ton Gas Heat / Belt Drive or Oversize Motor – 4366-1016

# Power Schematic

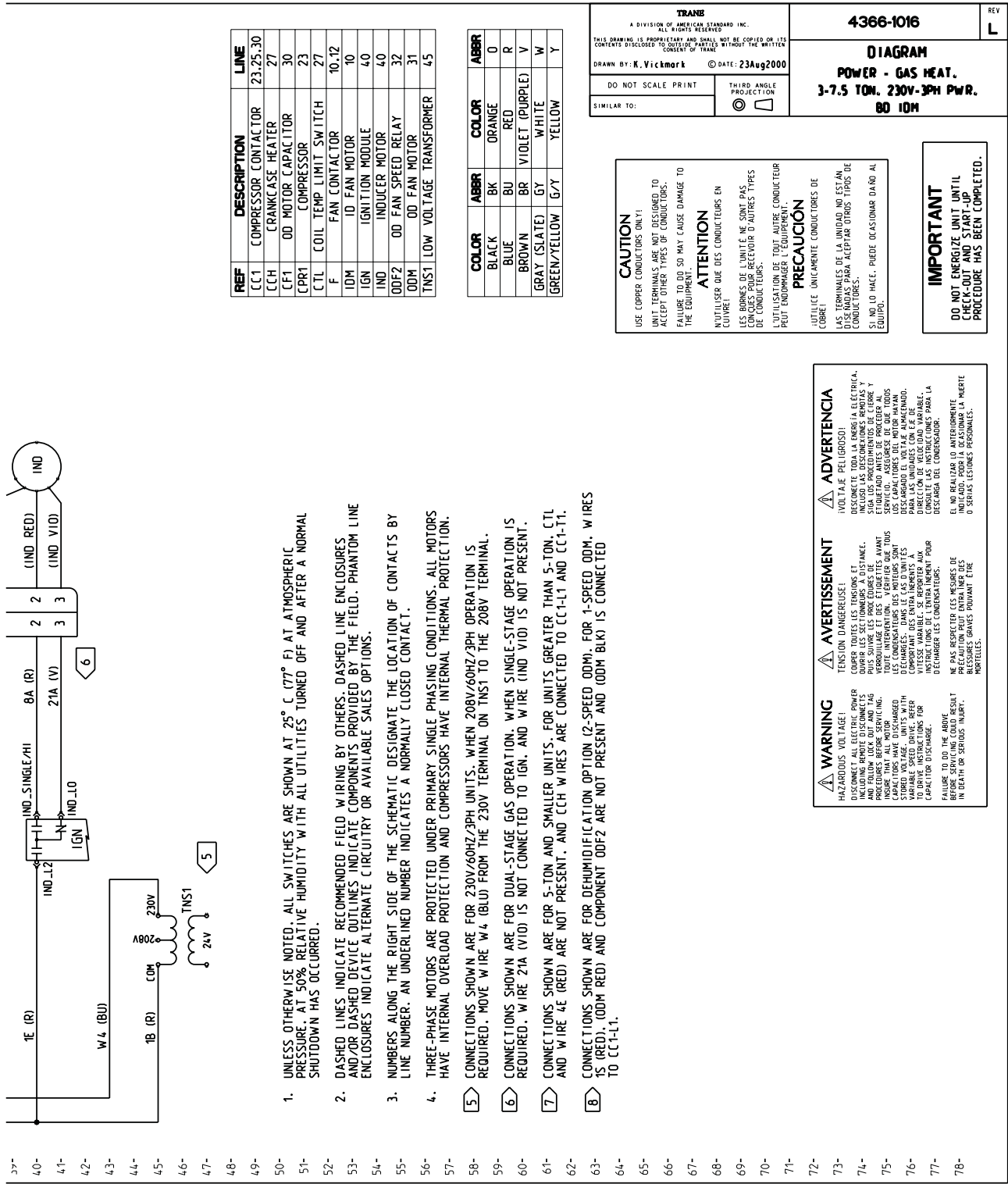


Figure 5. (continued from previous page) 230v/60hz/3ph – 2 - 7.5 Ton Single Stage Gas Heat / Belt Drive Motor – 4366-1016

# Power Schematic

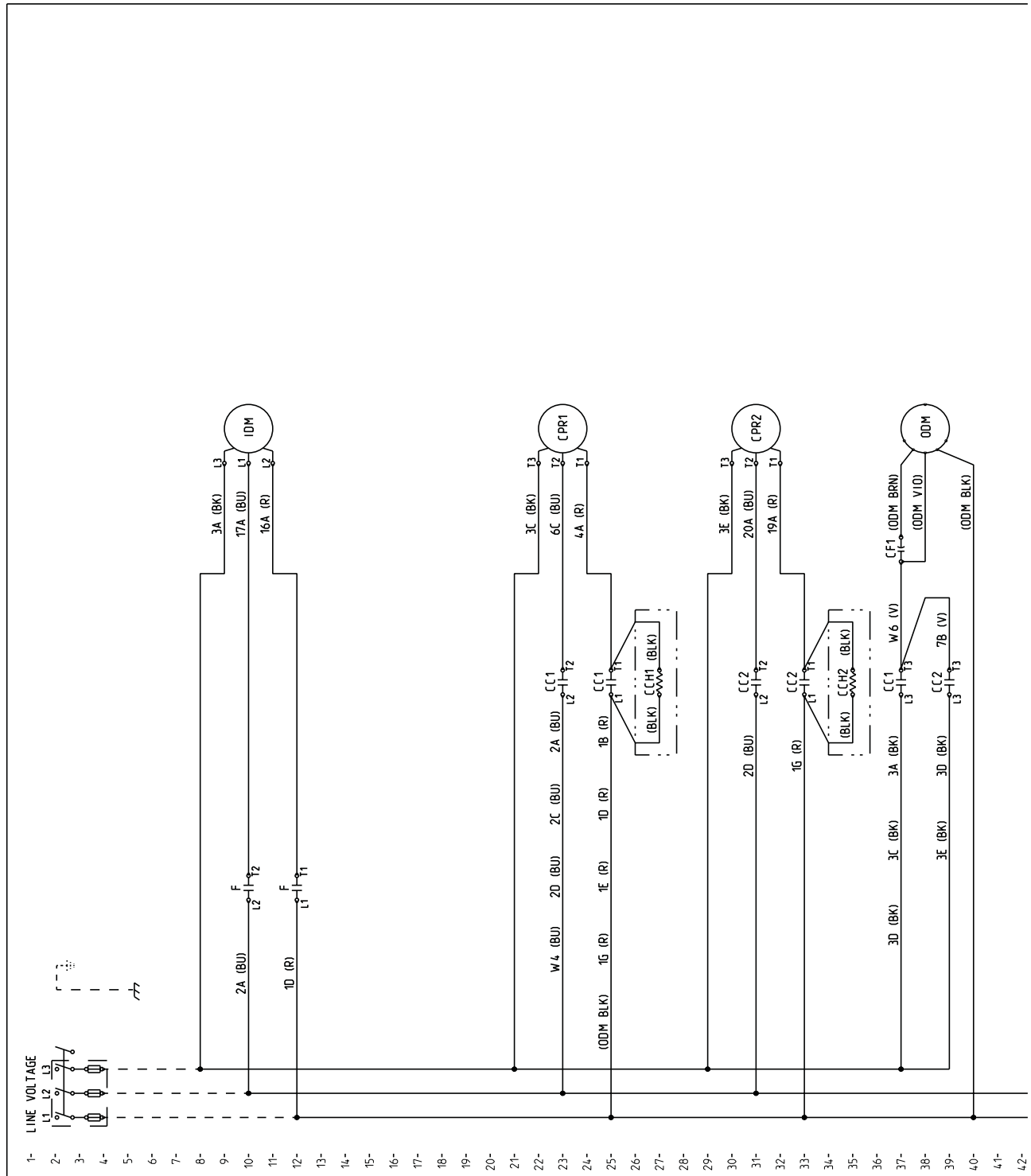


Figure 6. 230v/60hz/3ph – 7.5 - 10 Ton Gas Heat / Dual Compressor – 4366-1033

# Power Schematic

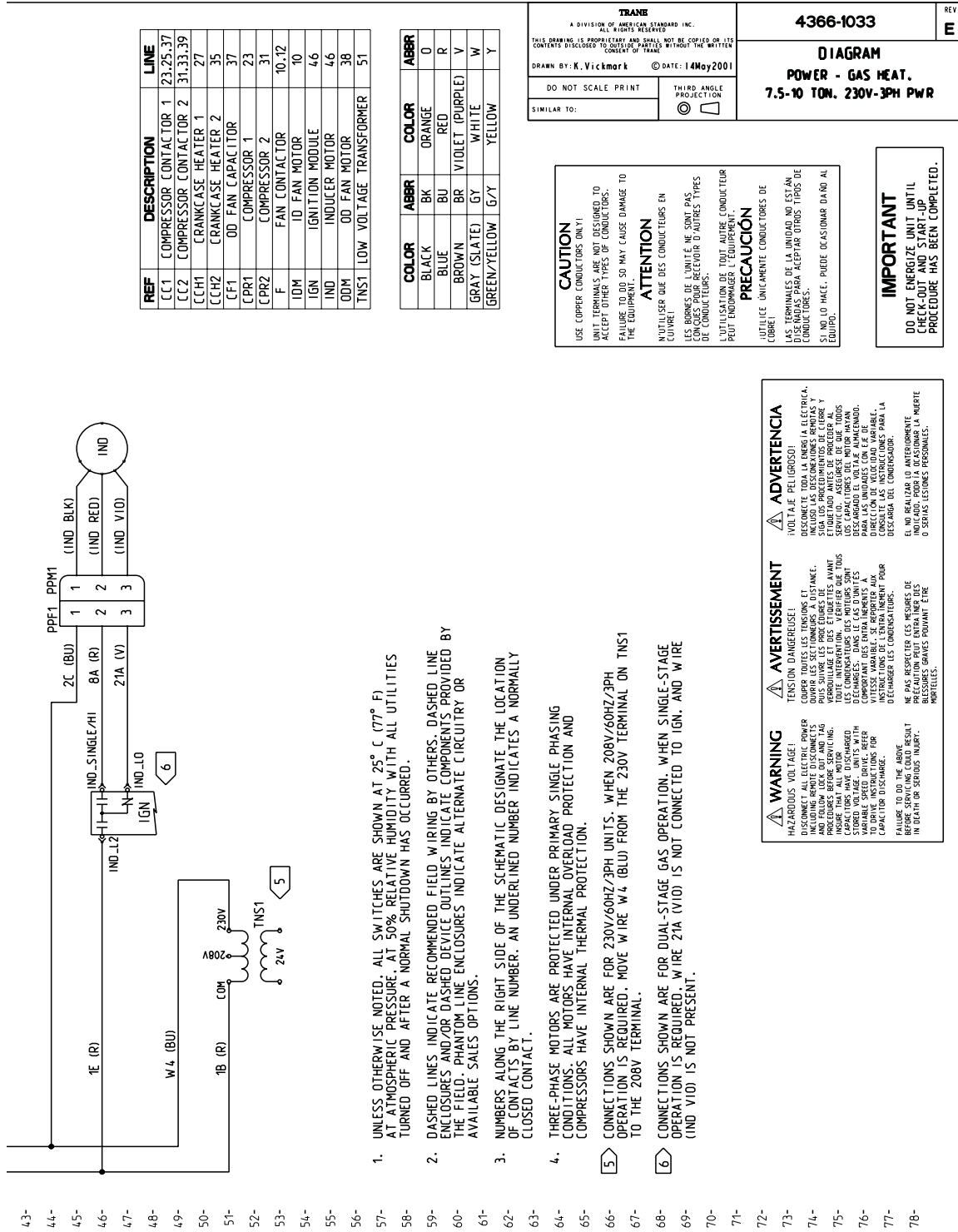


Figure 6. (continued from previous page) 230v/60hz/3ph — 7.5 - 10 Ton Gas Heat / Dual Compressor — 4366-1033

# Power Schematic

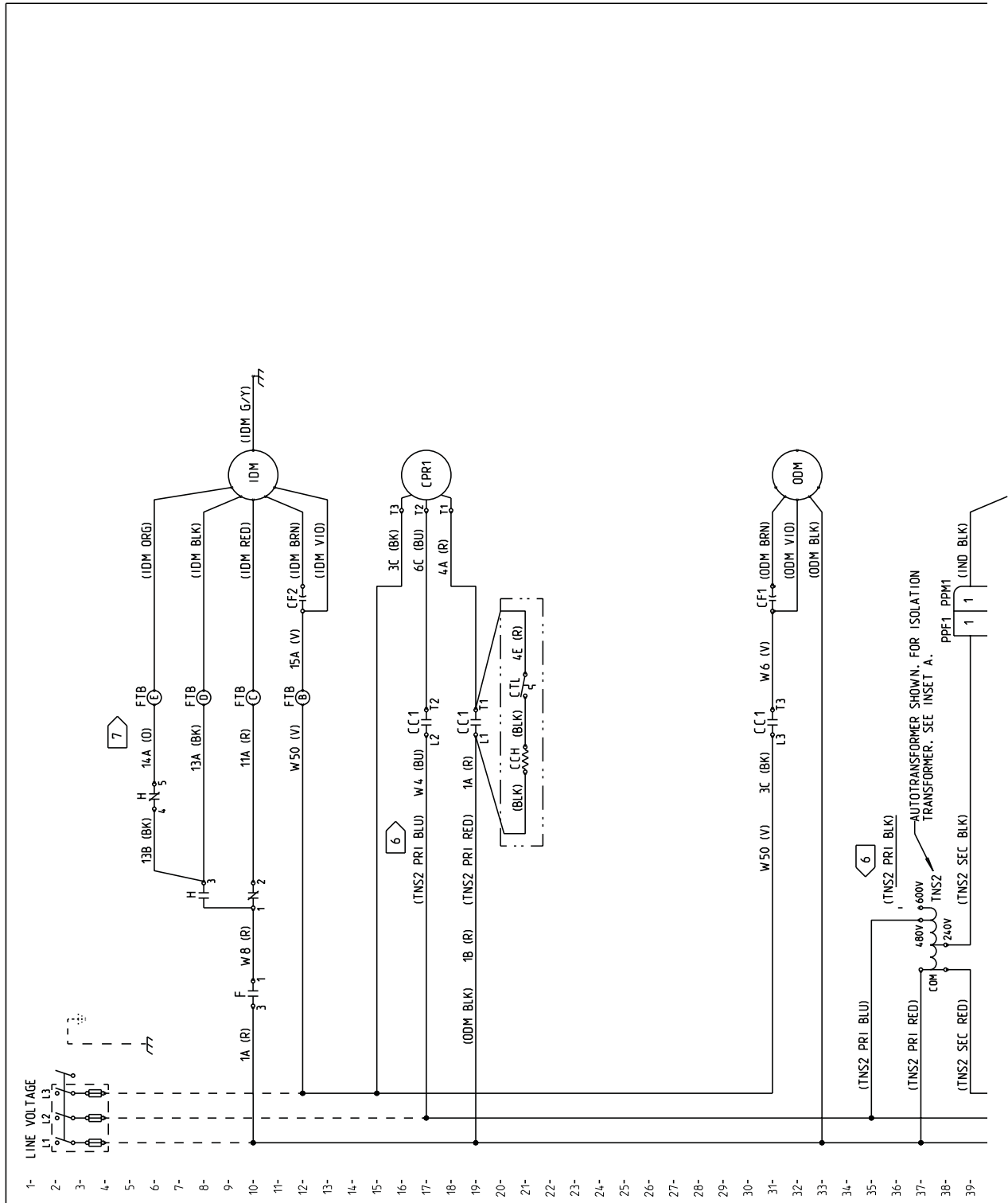


Figure 7. 460-575v/60hz/3ph – 3 Ton Single Stage Gas Heat / Direct Drive Motor – 4366-1004

# Power Schematic

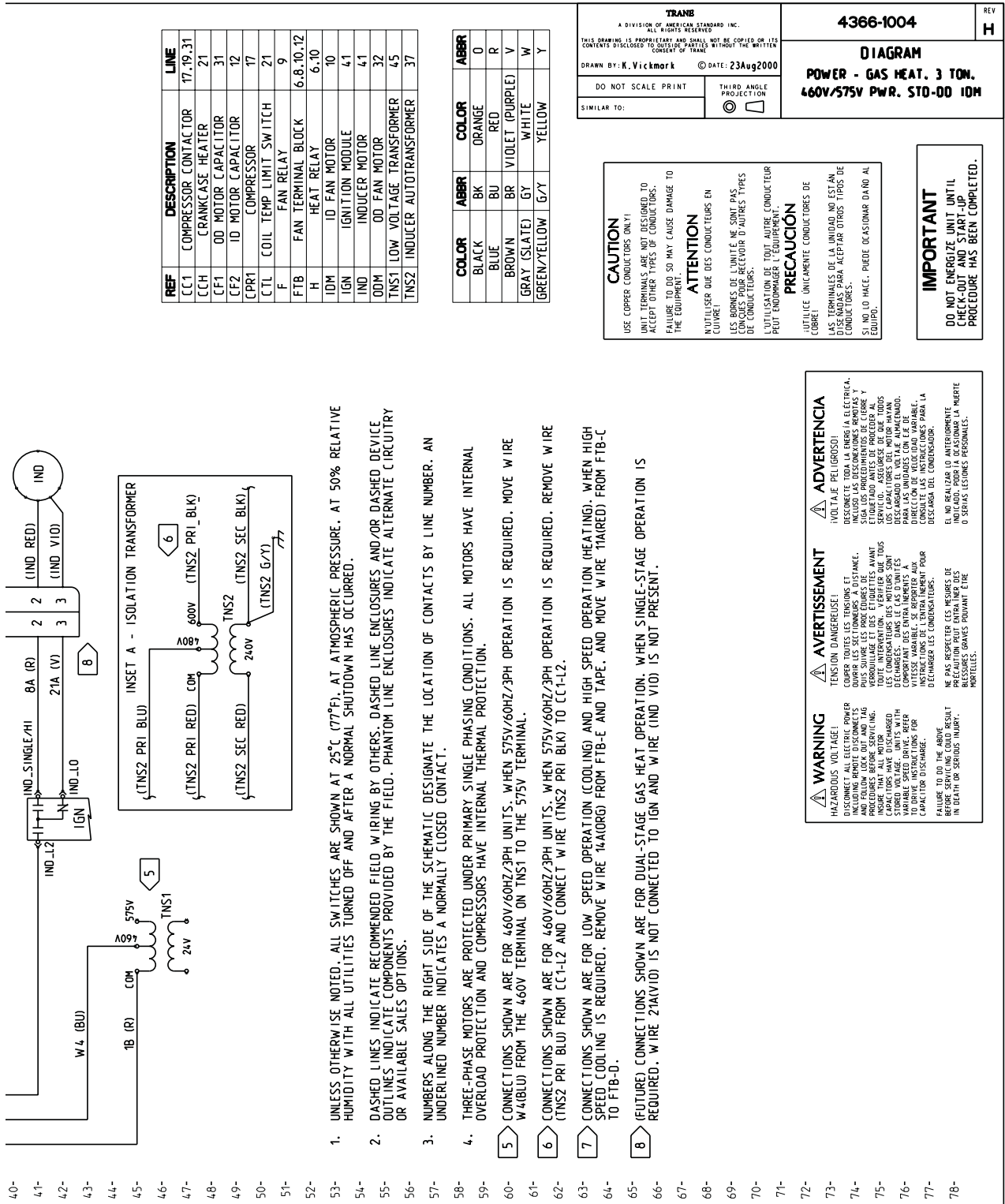


Figure 7. (continued from previous page) 460-575v/60hz/3ph – 2 - 3 Ton Single Stage Gas Heat / Direct Drive Motor – 4366-1004

# Power Schematic

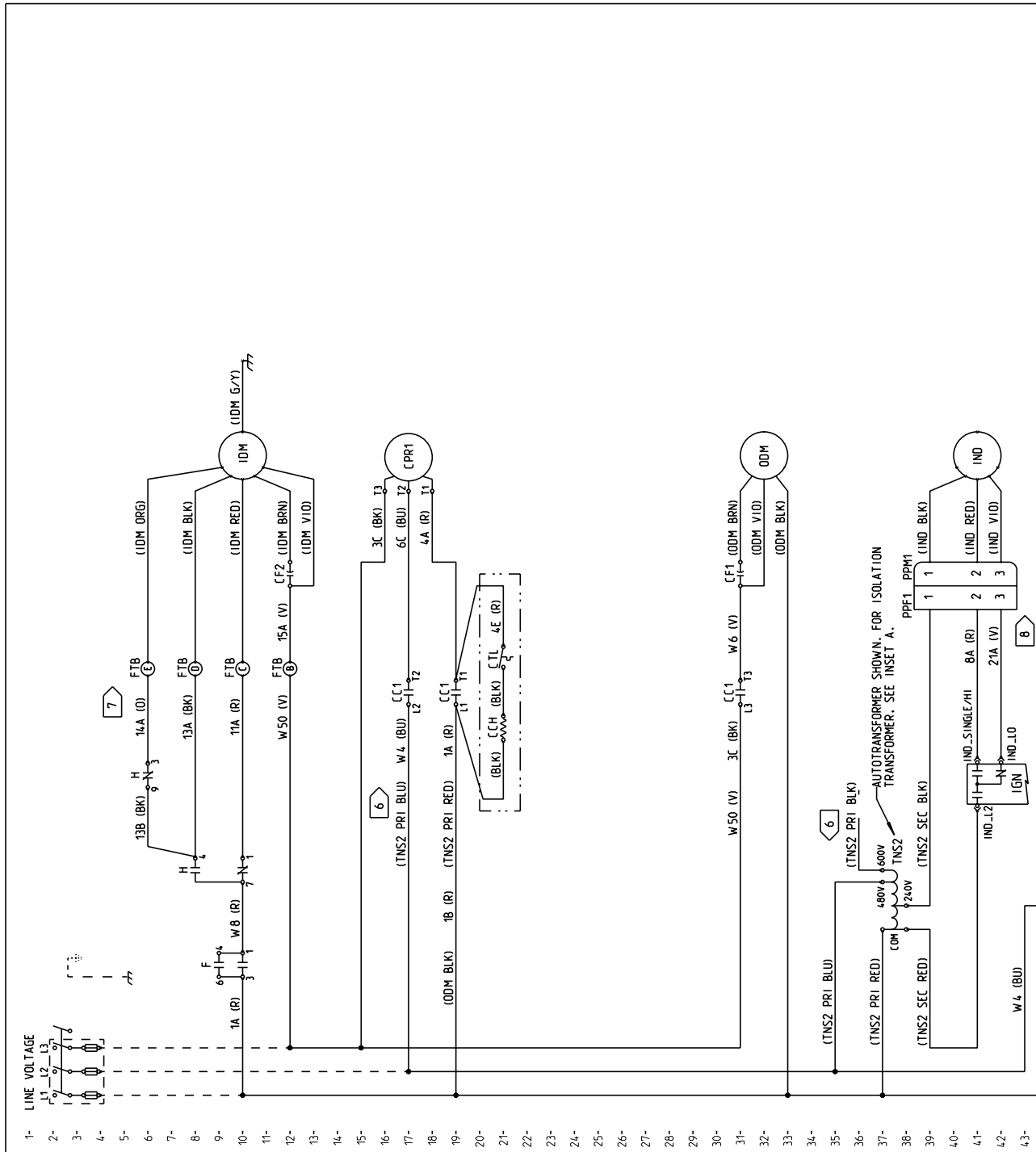


Figure 8. 460-575v/60hz/3ph – 4 - 5 Ton Single Stage Gas Heat / Direct Drive Motor – 4366-1032



# Power Schematic

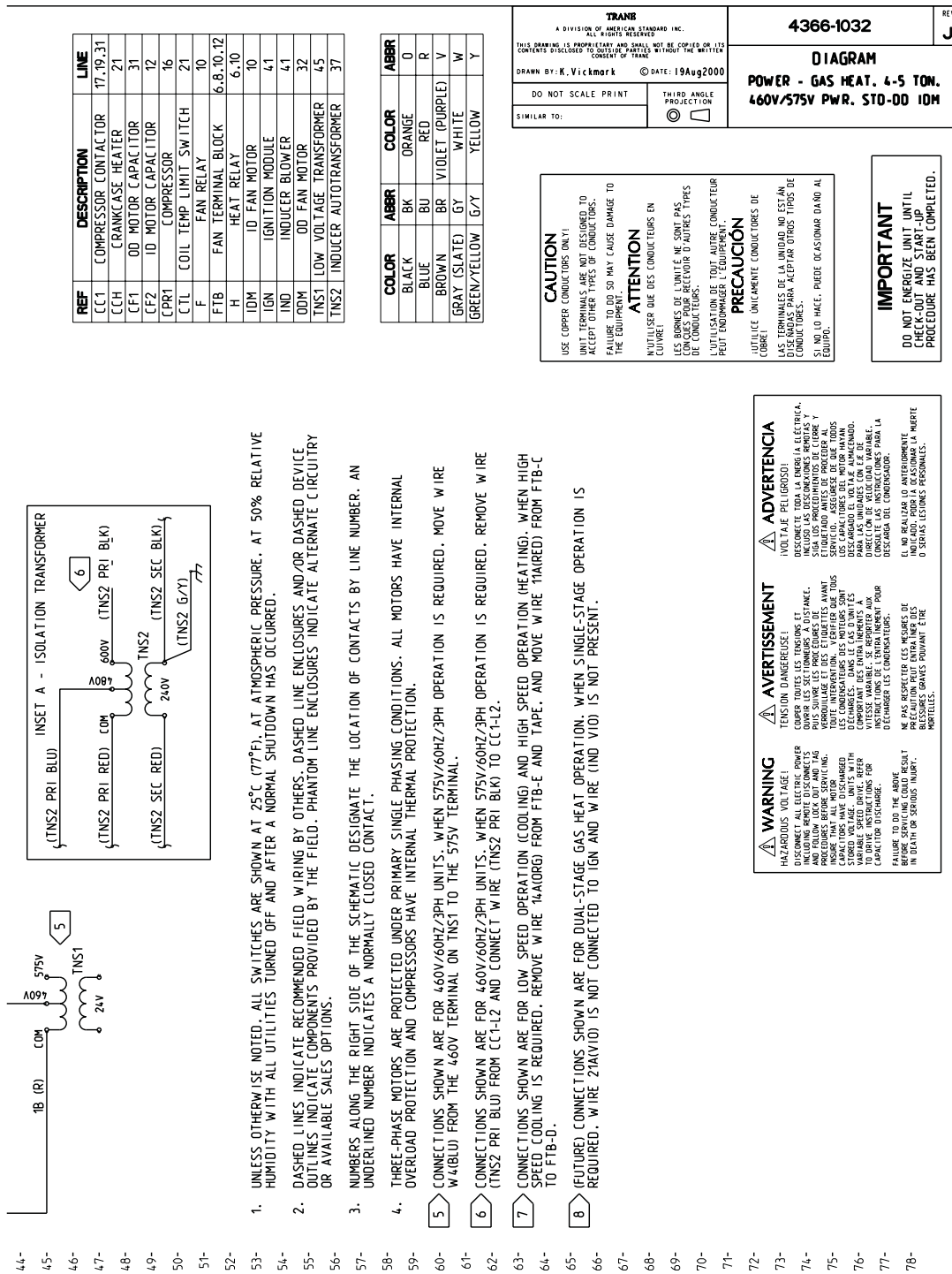


Figure 8. (continued from previous page) 460-575v/60hz/3ph — 4 - 5 Ton Single Stage Gas Heat / Direct Drive Motor — 4366-1032

# Power Schematic

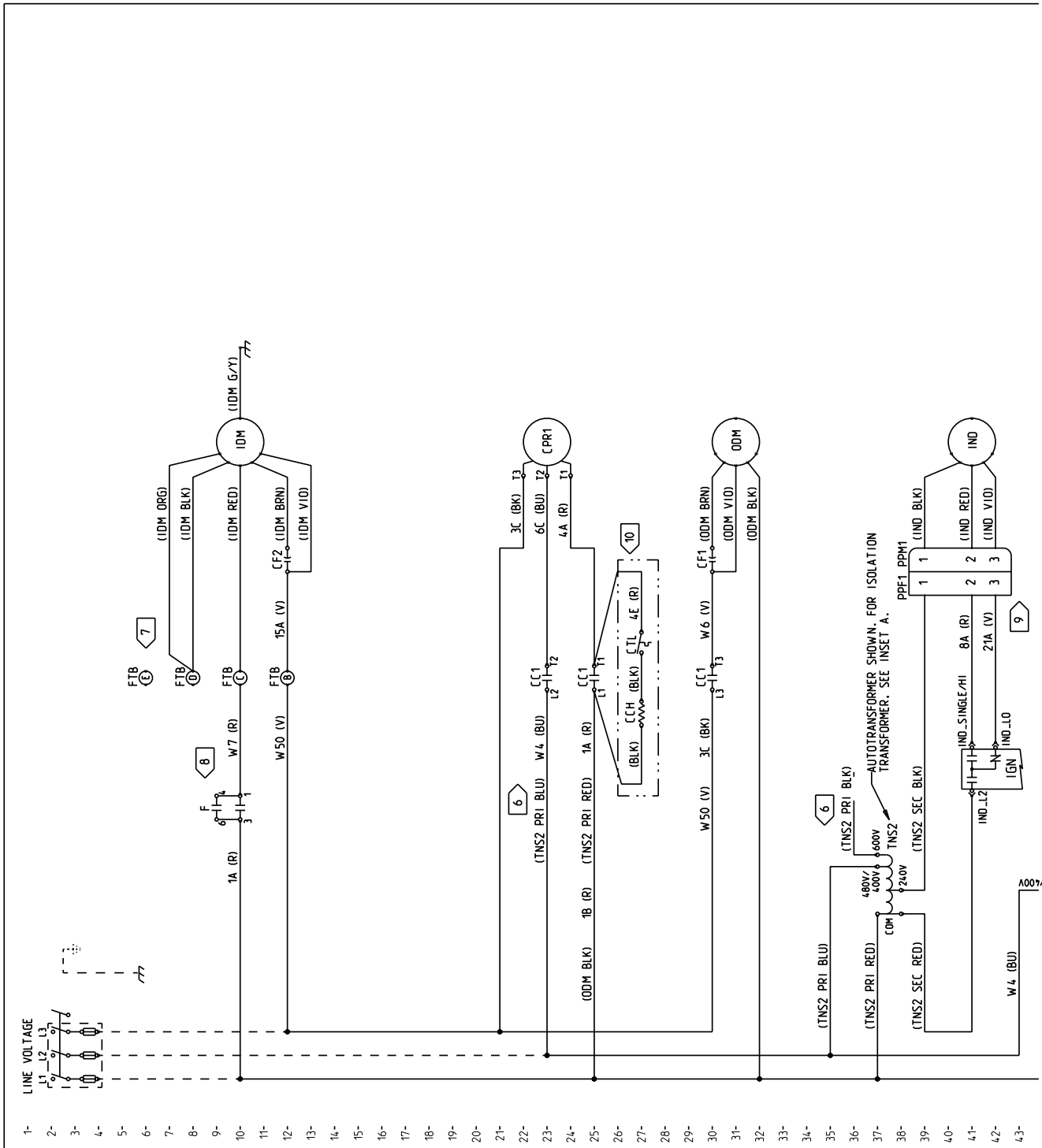


Figure 9. 460-575v/60hz/3ph — 4 - 5 Ton Single Stage Gas Heat / Oversize Drive Motor — 4366-1011

# Power Schematic

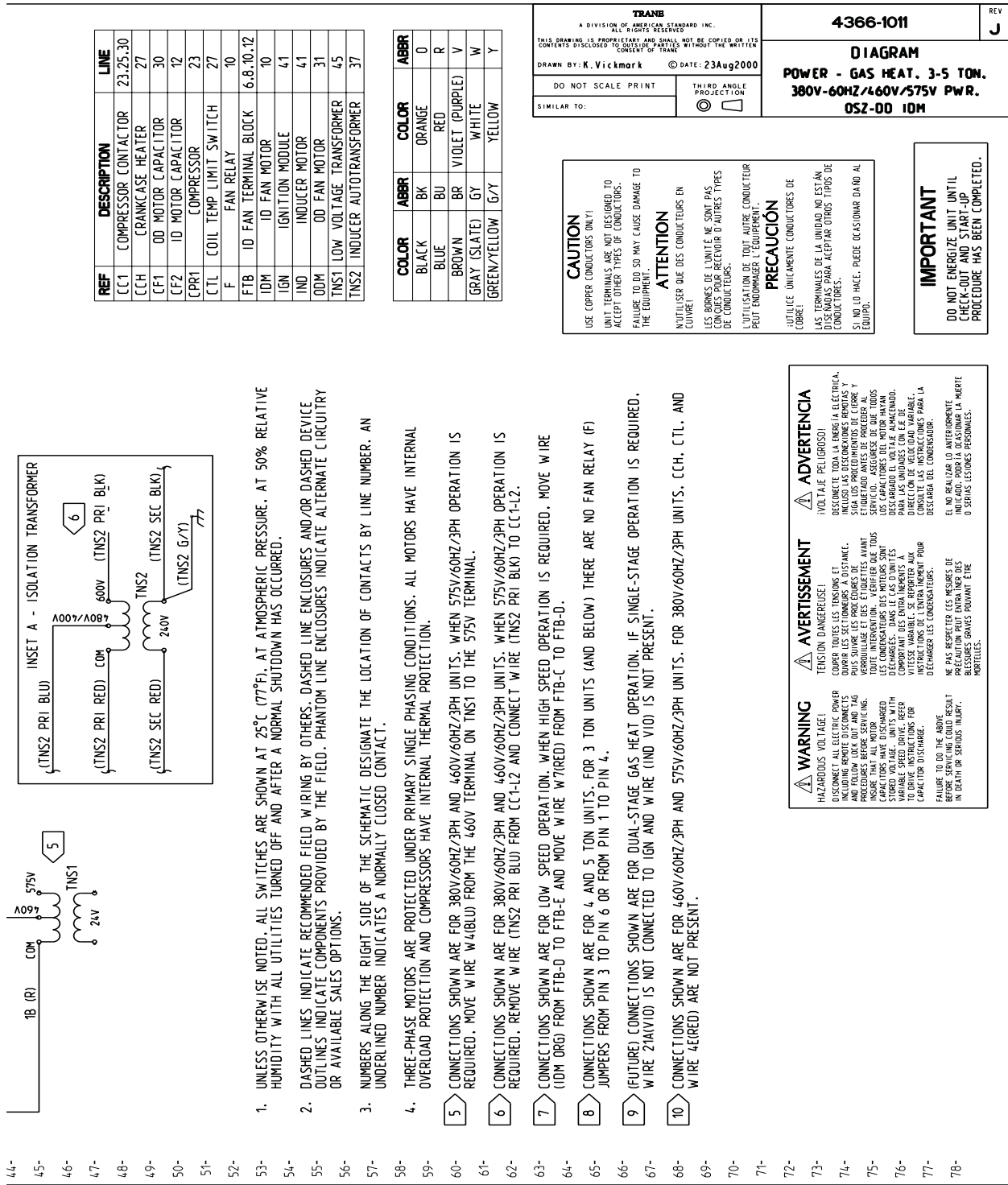


Figure 9. (continued from previous page) 460-575v/60hz/3ph – 4 - 5 Ton Single Stage Gas Heat / Oversize Drive Motor – 4366-1011

# Power Schematic

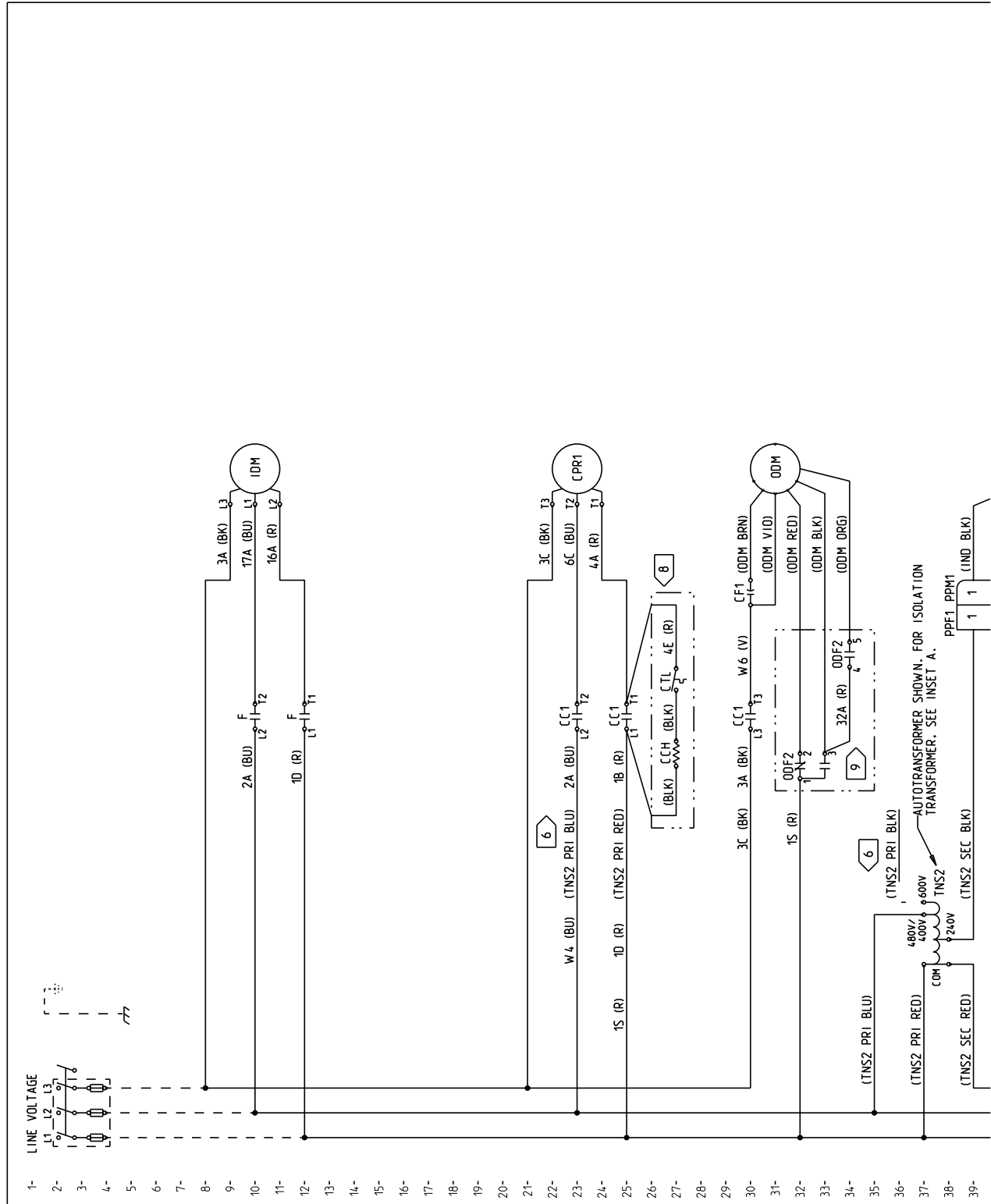


Figure 10. 460,575v/60hz/3ph — 2 - 7.5 Ton Gas Heat / Belt Drive Motor — 4366-1005

# Power Schematic

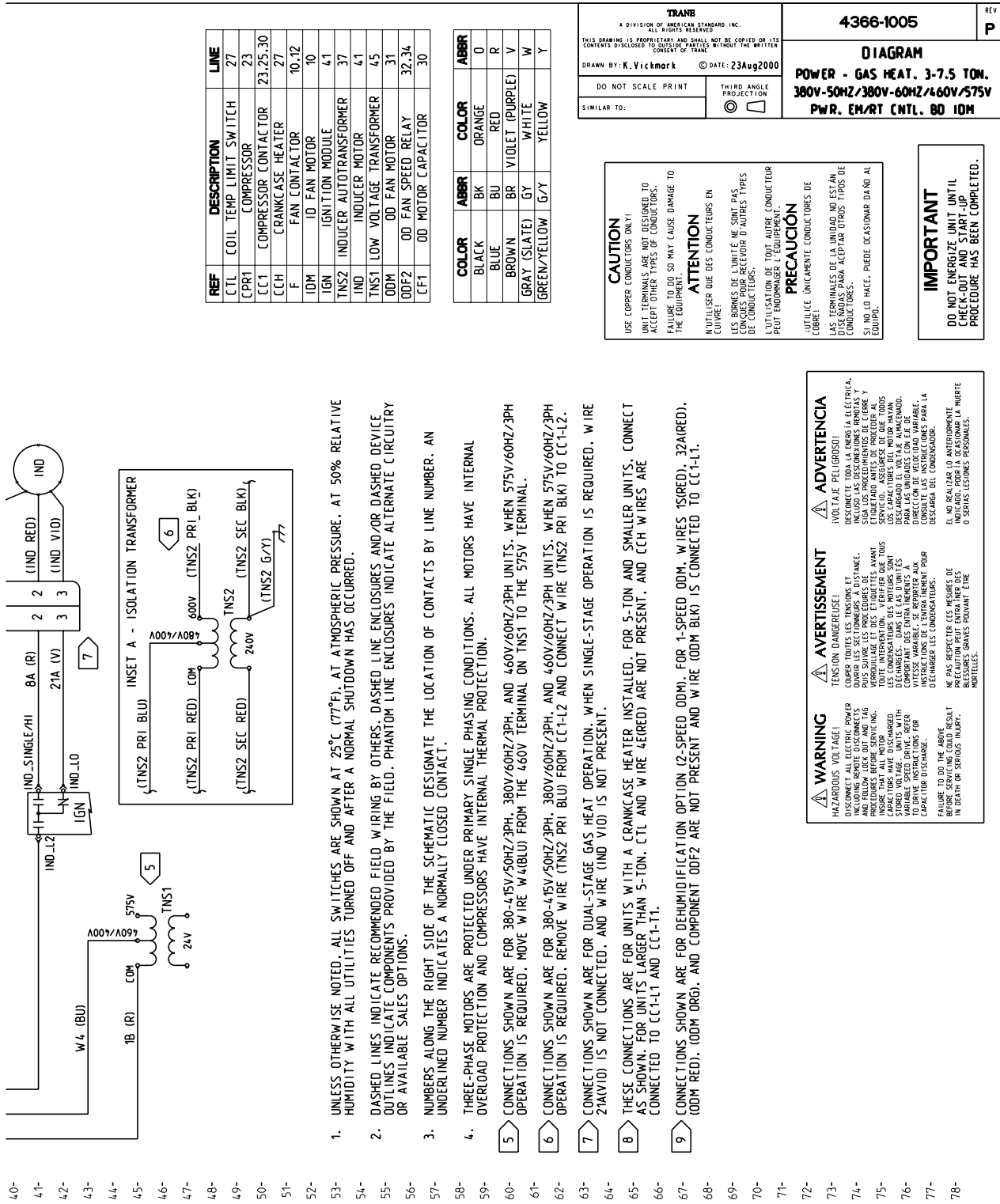


Figure 10. (continued from previous page) 460-575v/60hz/3ph – 2 - 7.5 Ton Single Stage Gas Heat / Belt Drive Motor – 4366-1005

# Power Schematic

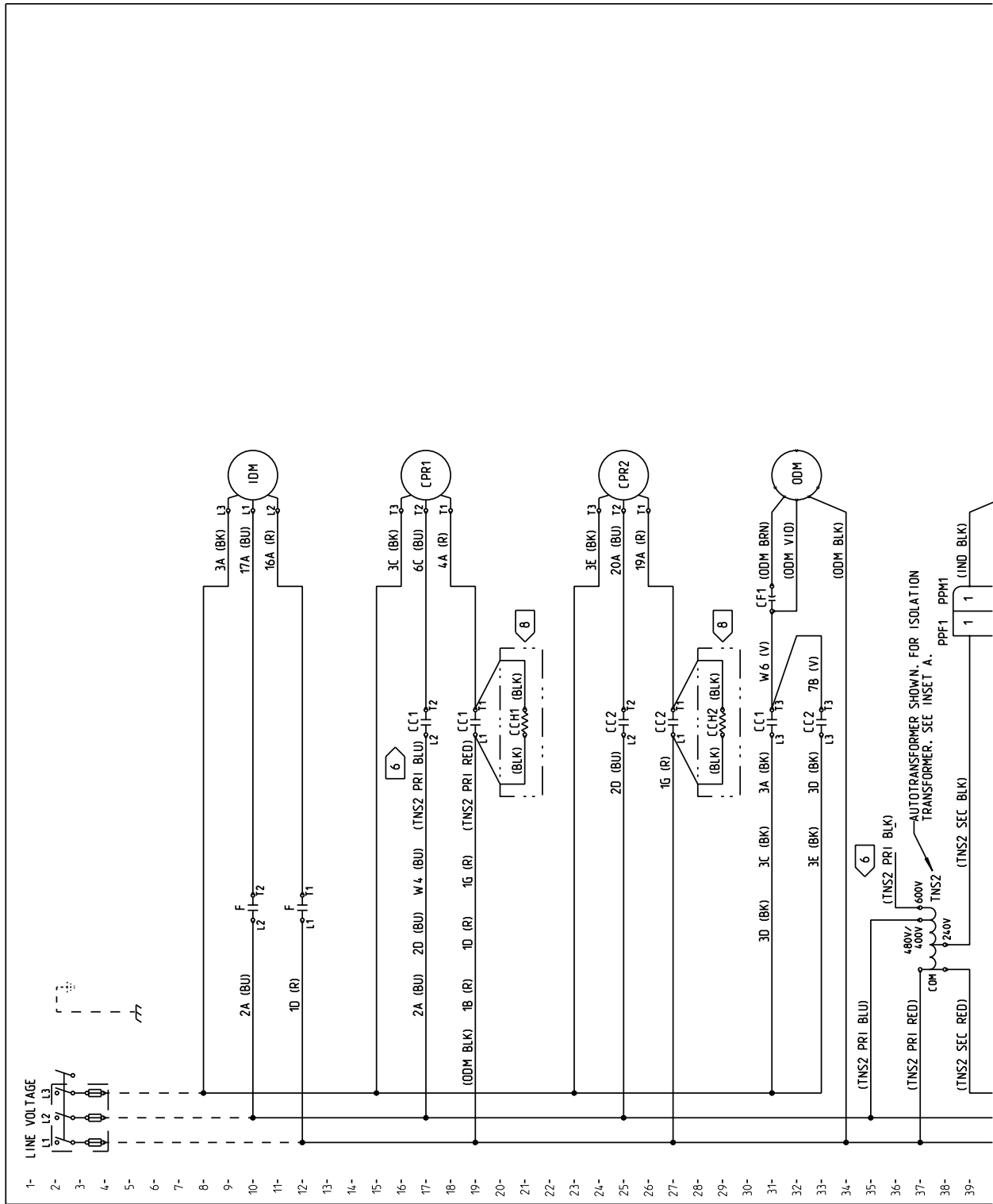


Figure 11. 460-575v/60hz/3ph – 7.5 - 10 Ton Gas Heat / Dual Compressor – 4366-1034

# Power Schematic

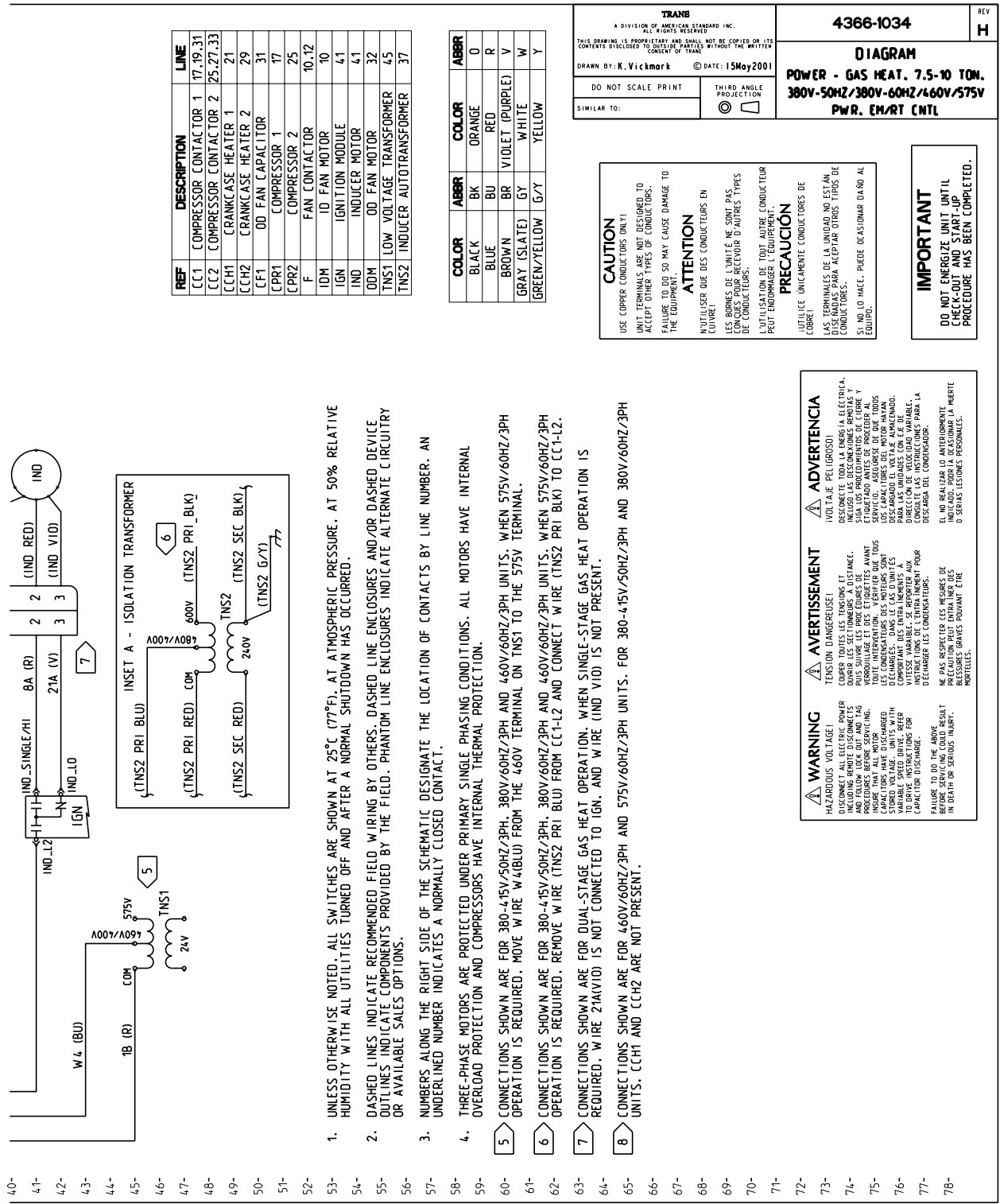


Figure 11. (continued from previous page) 460-575v/60hz/3ph – 7.5 - 10 Ton Gas Heat / Dual Compressor – 4366-1034

# Power Schematic

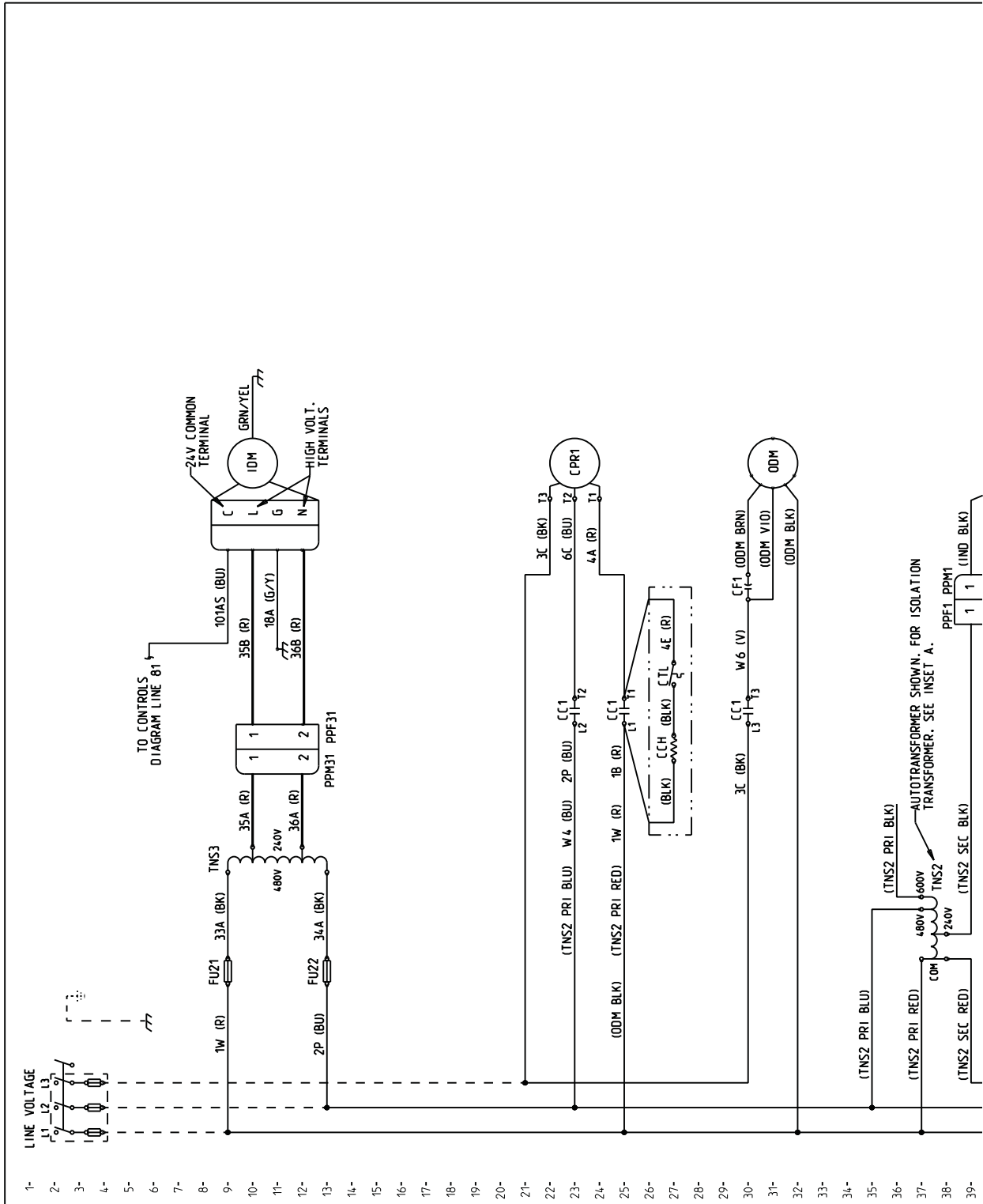


Figure 12. 460v/60Hz/3Ph – 3 - 5 Ton Hi Eff / R410A / Direct Drive Indoor Motor – 4366-5164



# Power Schematic

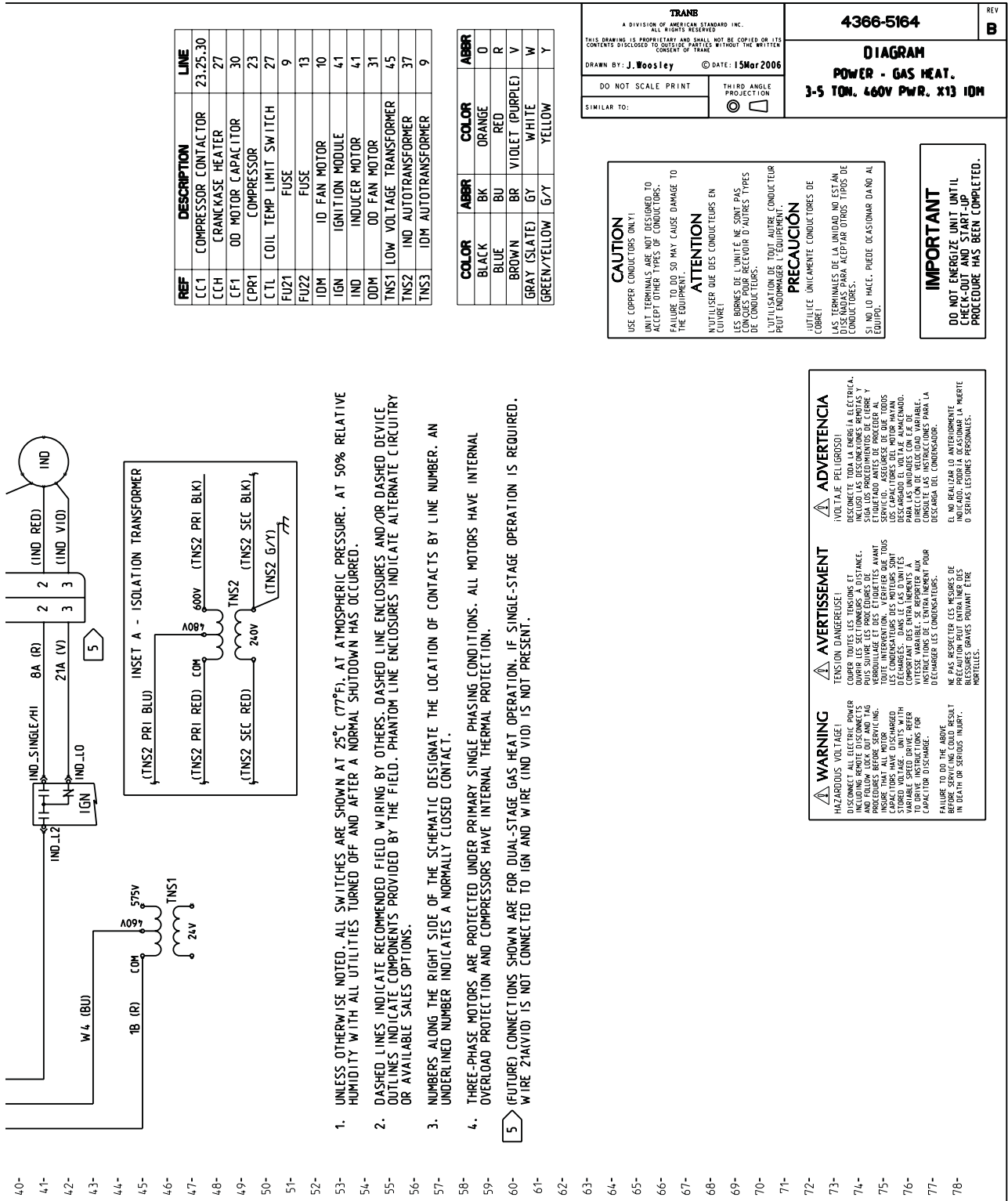


Figure 12. (continued from previous page) 460v/60Hz/3Ph — 3 - 5 Ton Hi Eff / R410A / Direct Drive Indoor Motor — 4366-5164

# Power Schematic

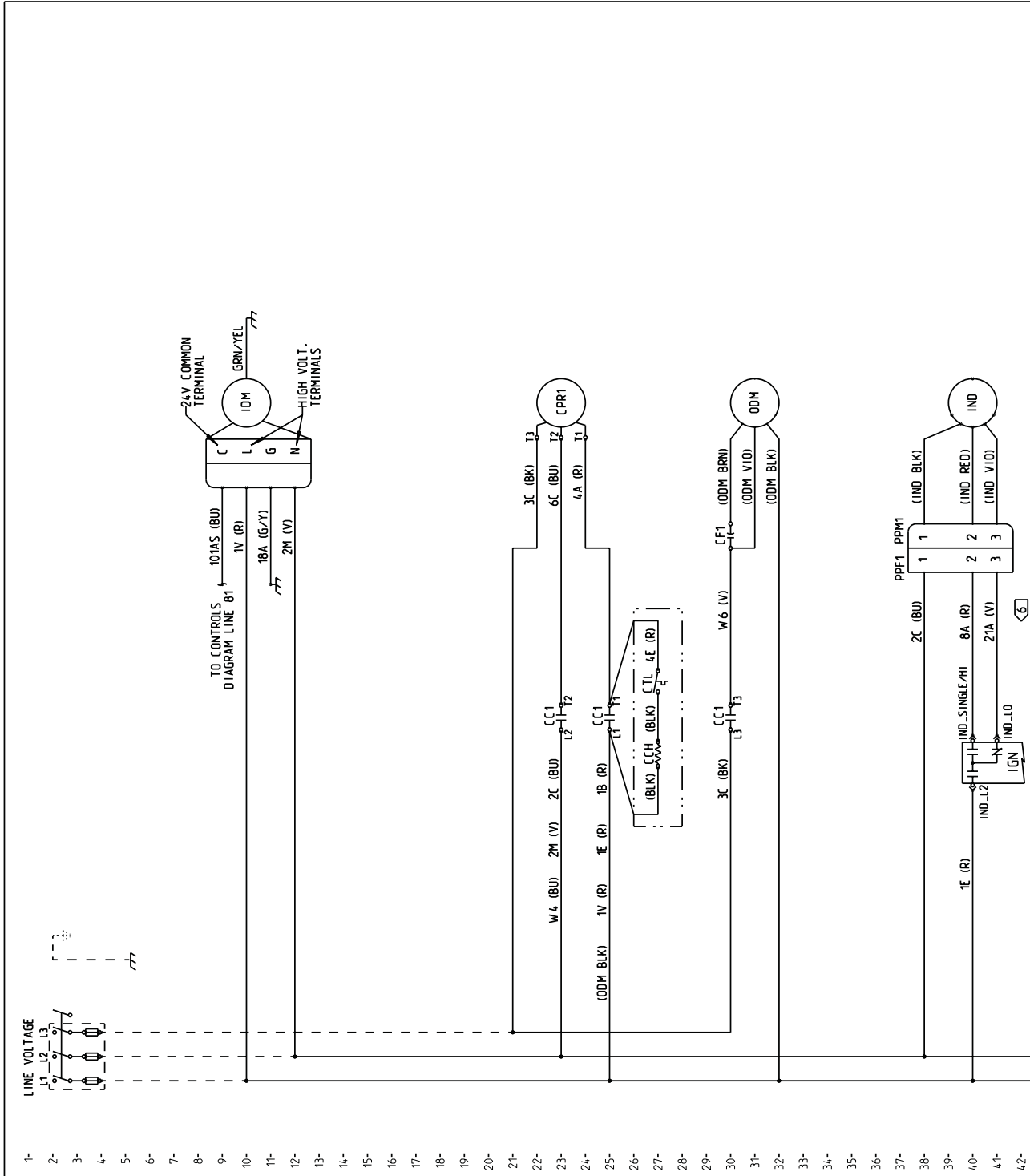


Figure 13. 230v/60Hz/3Ph — 3 - 5 Ton Hi Eff / R410A / Direct Drive Indoor Motor — 4366-5163

# Power Schematic

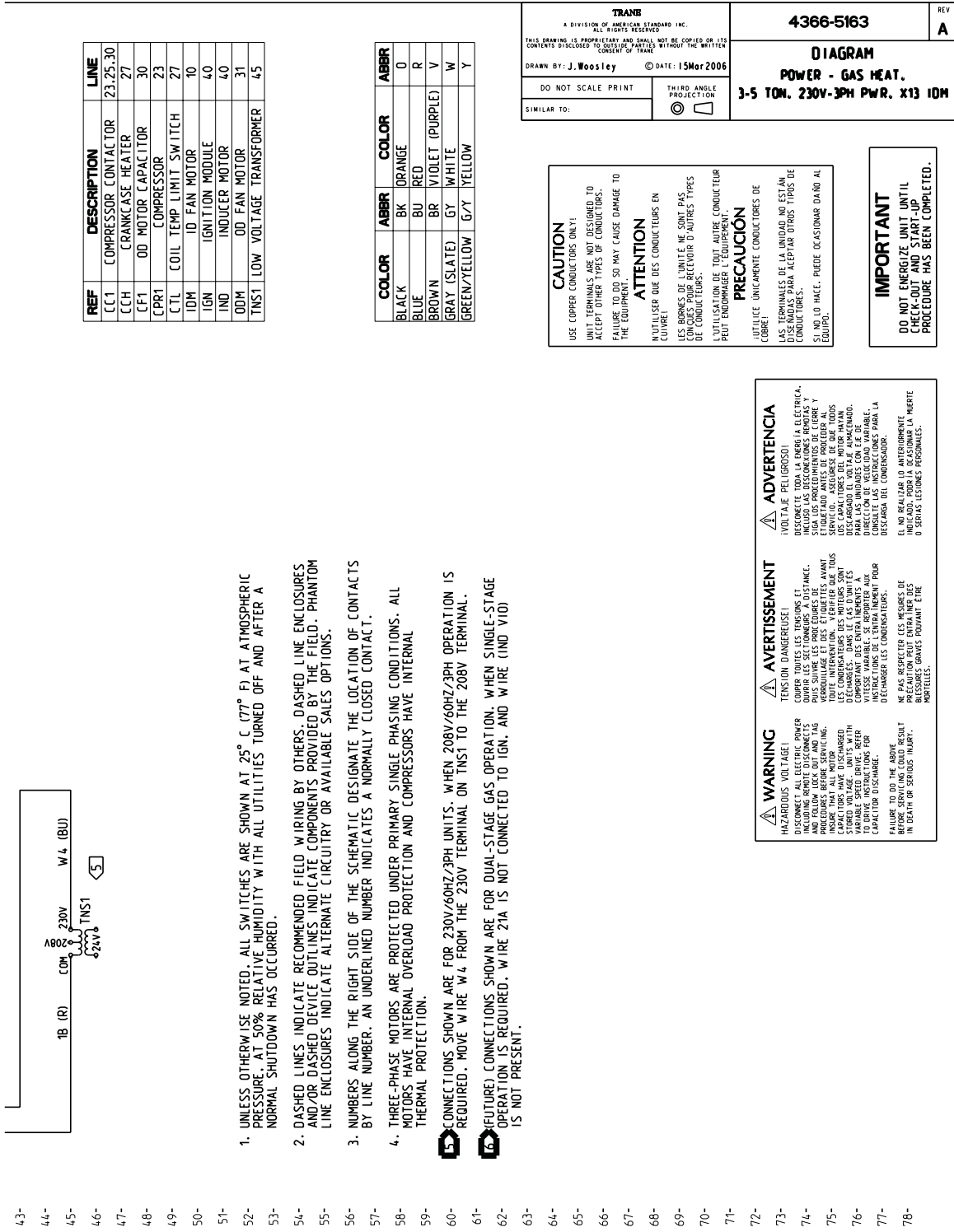


Figure 13. (continued from previous page) 230v/60Hz/3Ph — 3 - 5 Ton Hi Eff / R410A / Direct Drive Indoor Motor — 4366-5163

# Power Schematic

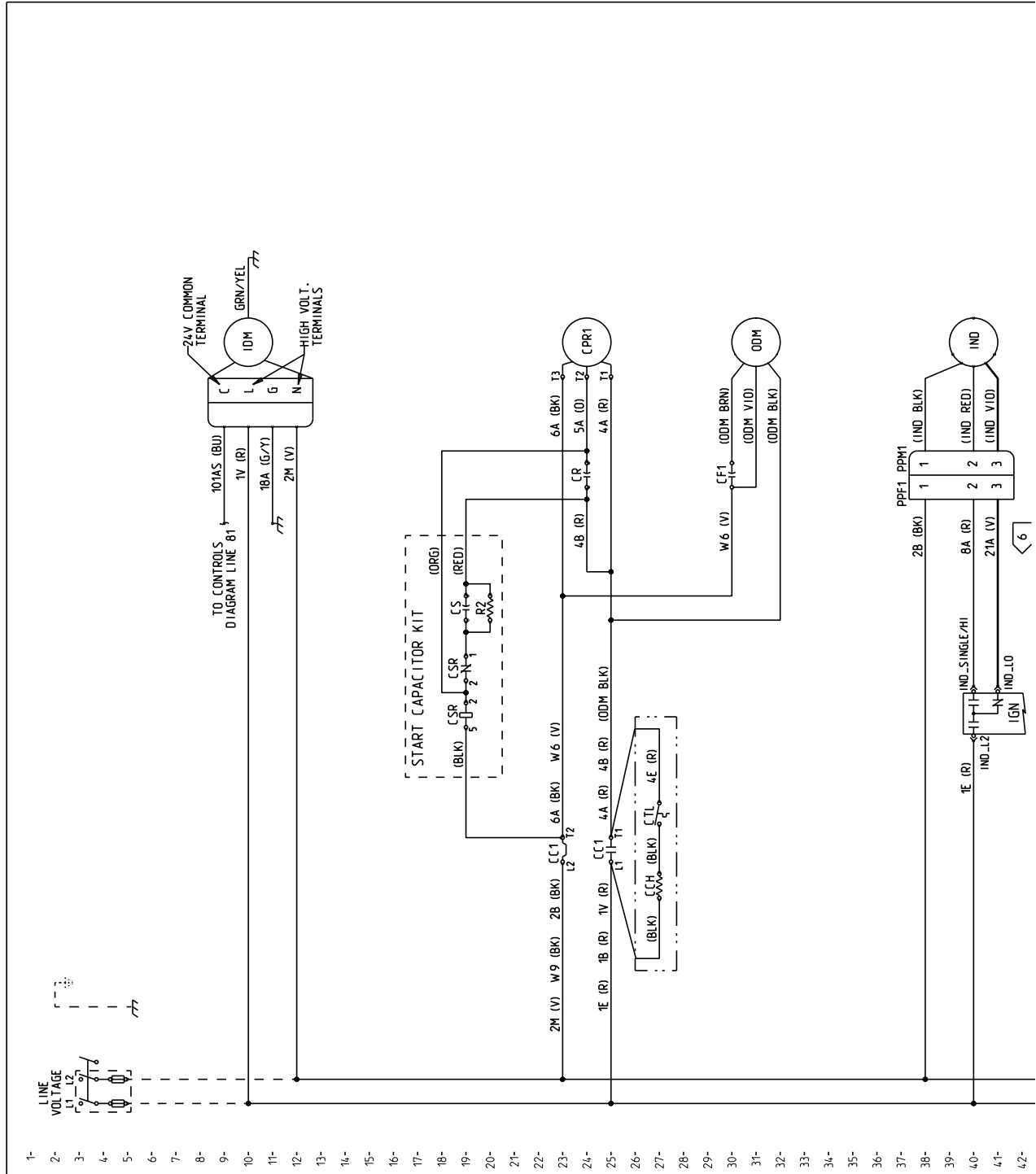


Figure 14. 230v/60Hz/1Ph – 3 - 5 Ton R410A / Direct Drive Indoor Motor – 4366-4576

# Power Schematic

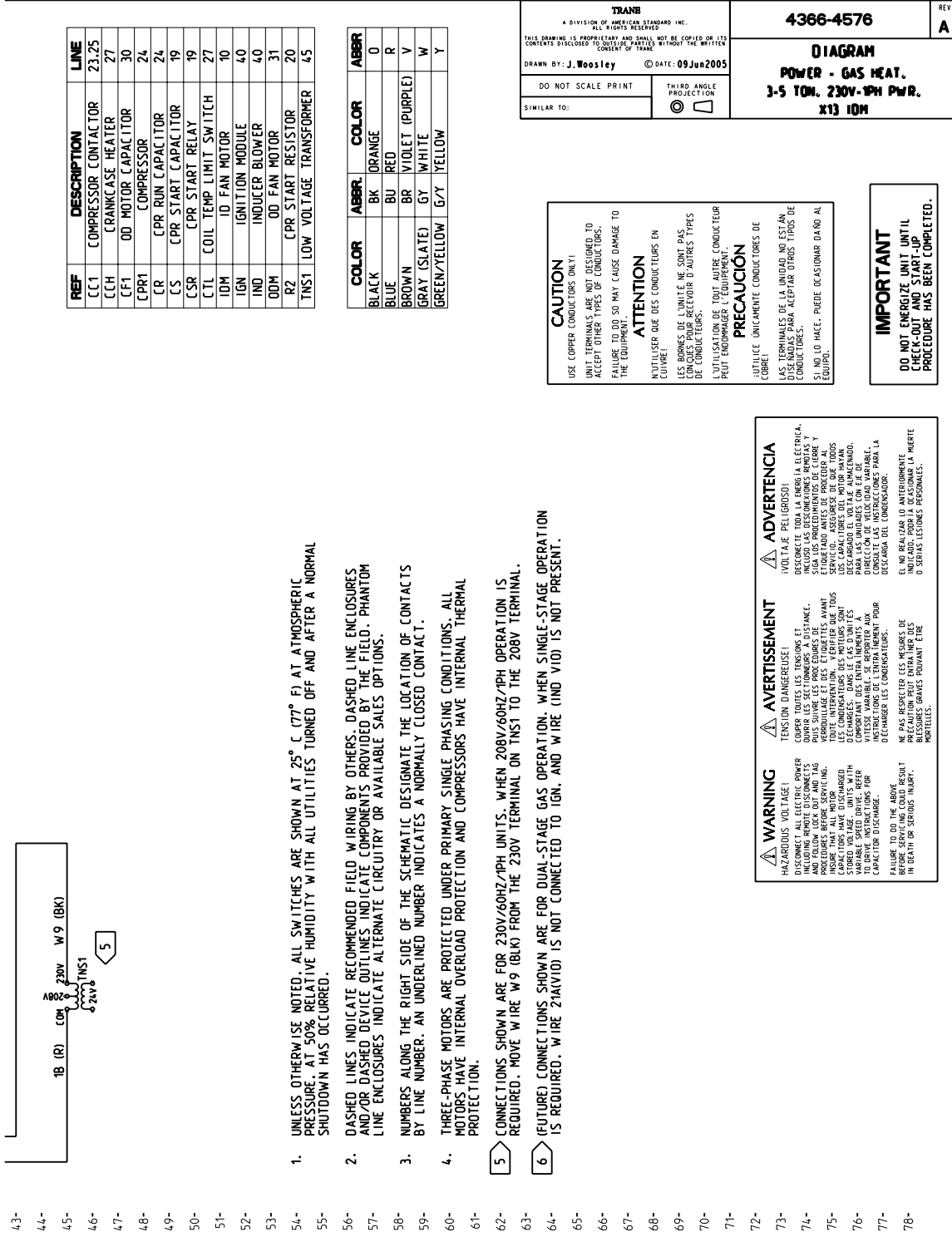


Figure 14. (continued from previous page) 230v/60Hz/1Ph — 3 - 5 Ton R410A / Direct Drive Indoor Motor — 4366-4576

# Connection Schematics

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 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM, ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
7. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
8. (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.

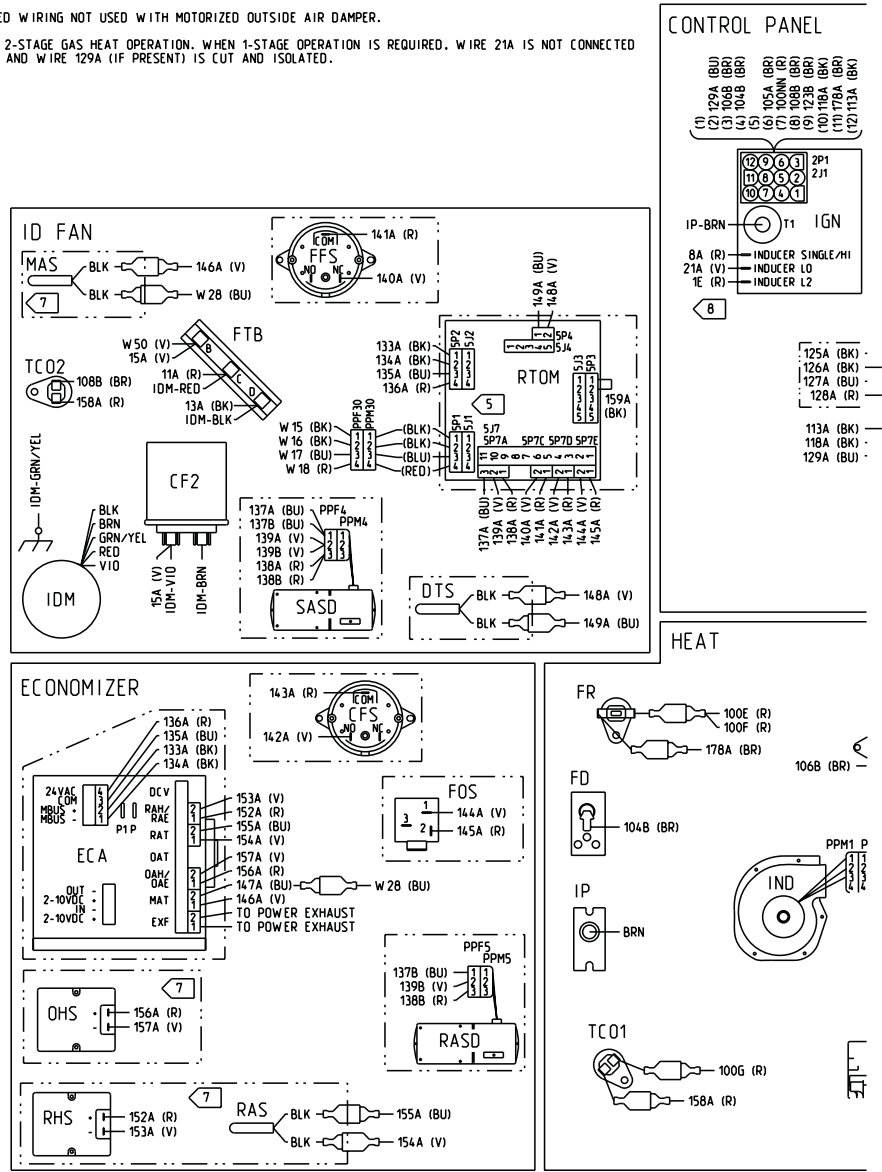


Figure 15. 230v/60hz/1ph – 3 - 5 Ton Single Stage Gas Heat / Direct Drive – 4366-1501

# Connection Schematics

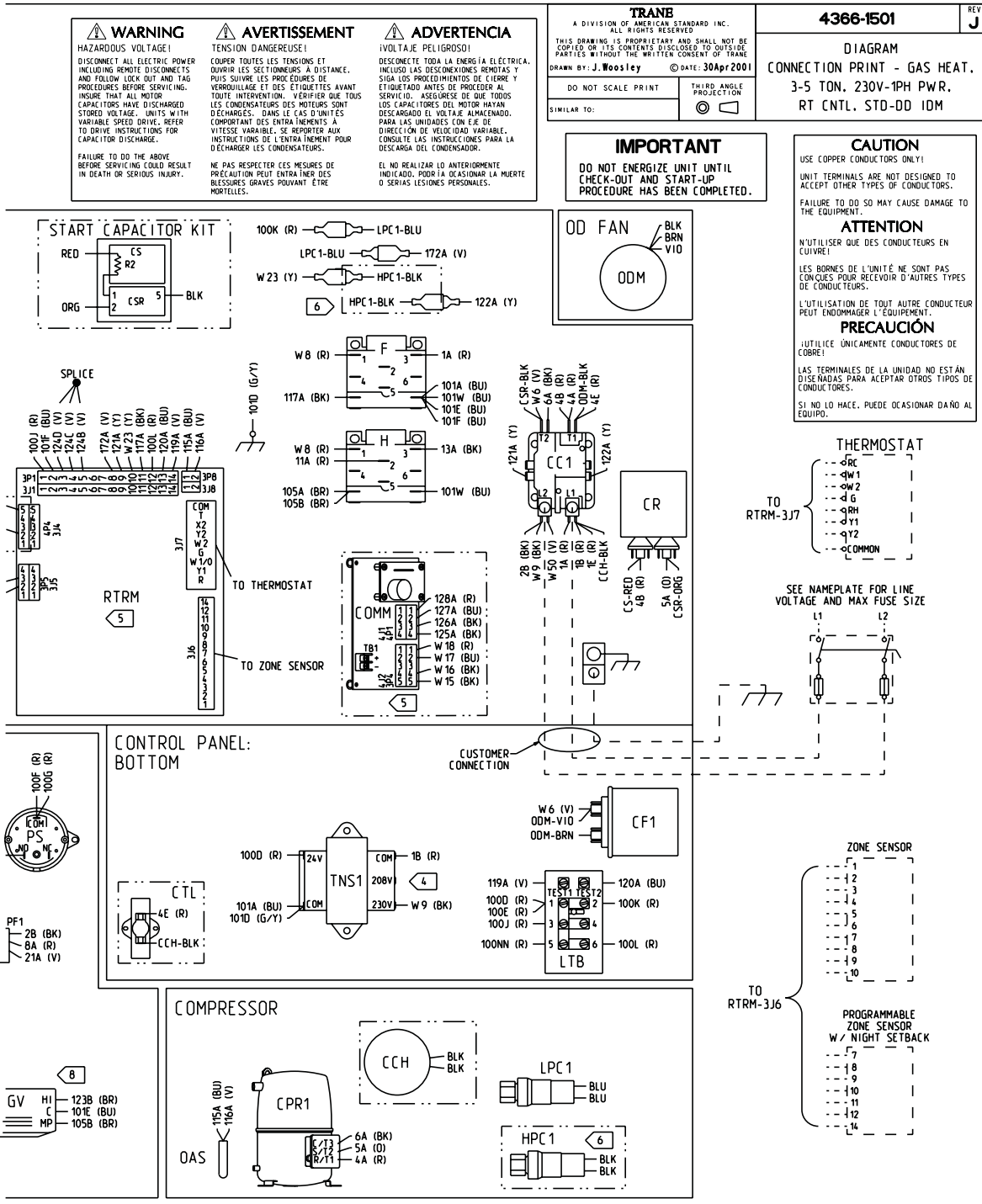


Figure 15. (continued from previous page) 230v/60hz/1ph — 3 - 5 Ton Single Stage Gas Heat / Direct Drive — 4366-1501

# Connection Schematics

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 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM. 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM. SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
7. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
8. (FUTURE OPTION) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE GAS HEAT OPERATION IS REQUIRED, WIRE 21A IS NOT CONNECTED TO IGN. WIRE 123B IS NOT CONNECTED TO GV, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.

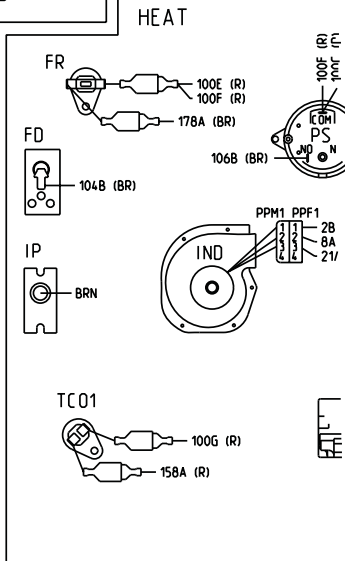
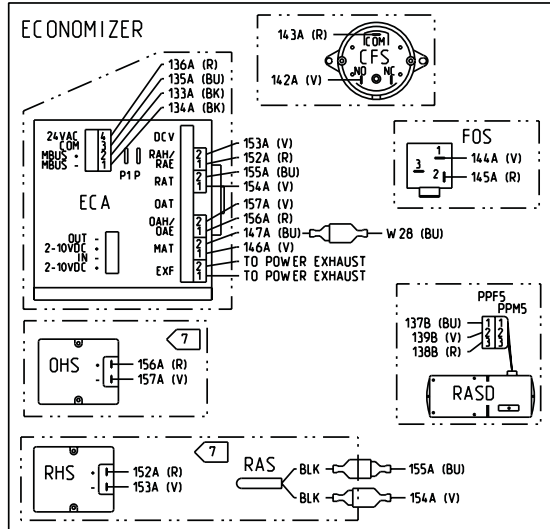
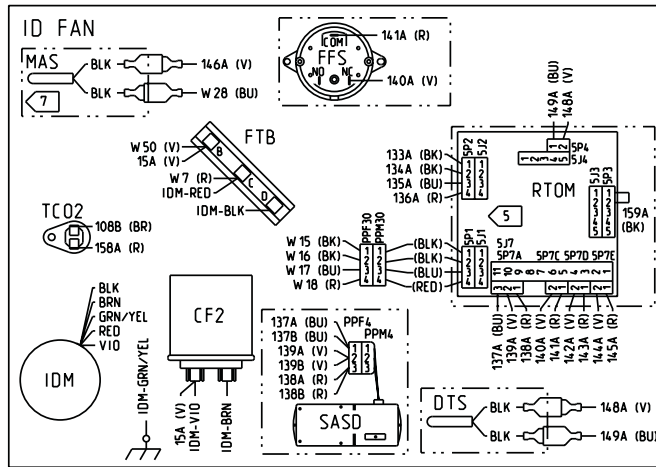
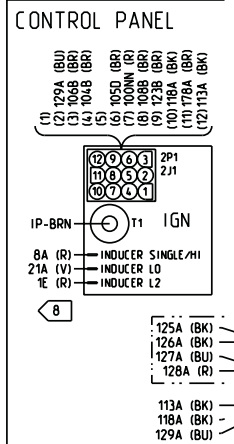
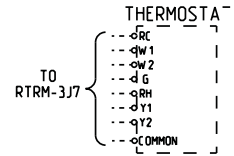


Figure 16. 230v/60hz/1ph – 3 - 5 Ton Single Stage Gas Heat / Oversize Motor – 4366-1520



# Connection Schematics

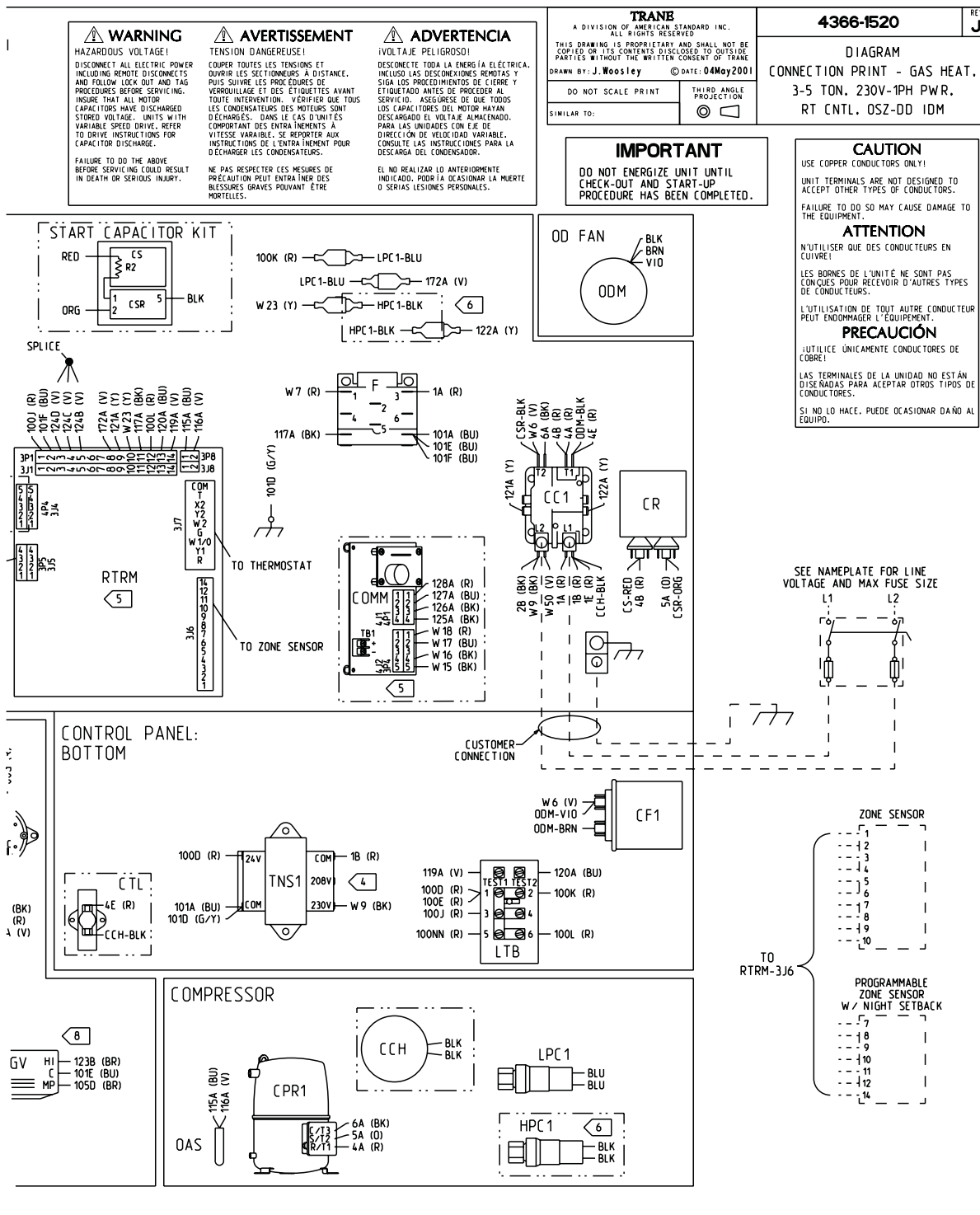


Figure 16. (continued from previous page) 230v/60hz/1ph – 3 - 5 Ton Single Stage Gas Heat / Oversize Motor – 4366-1520

# Connection Schematics

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 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM. 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
7. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
8. (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.

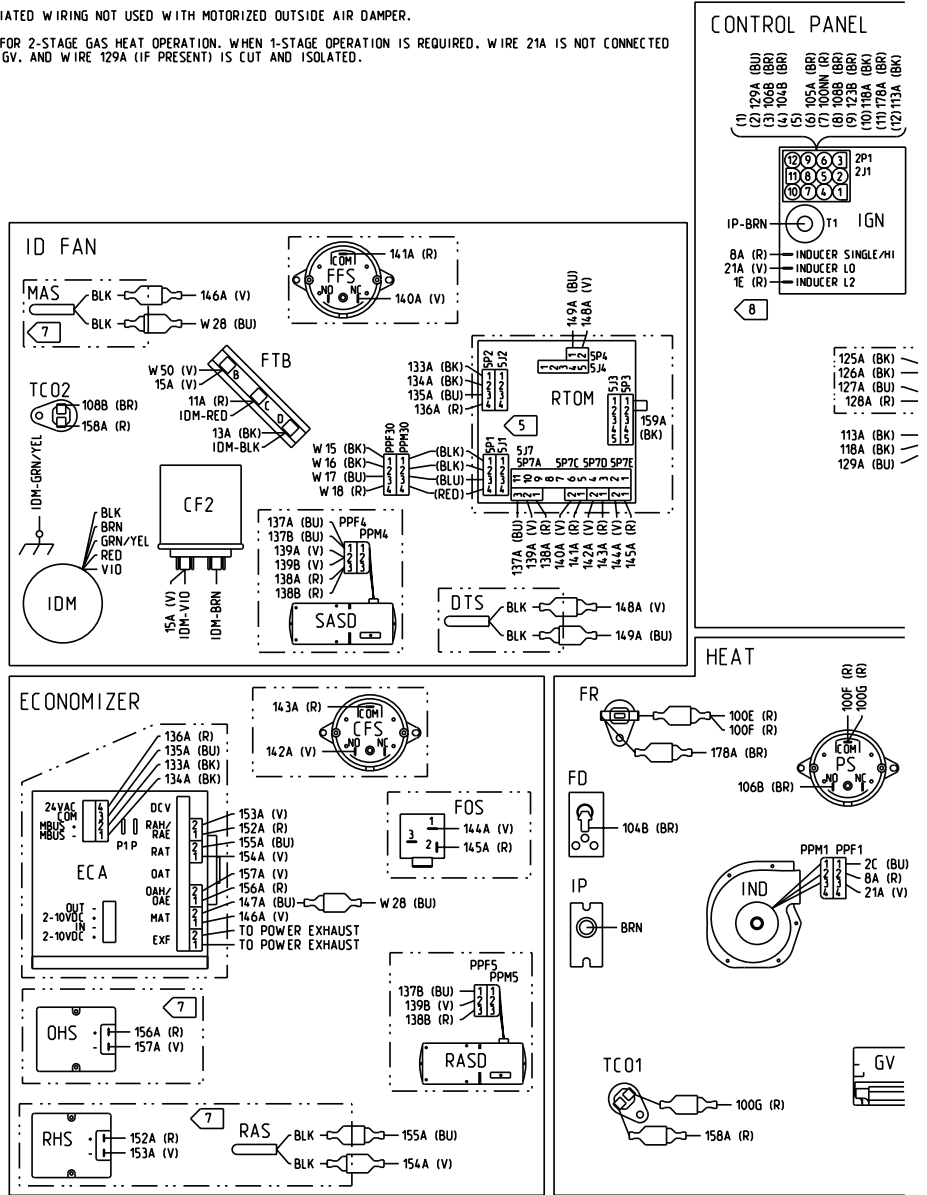


Figure 17. 230v/60hz/3ph – 3 - 5 Ton Single Stage Gas Heat / Direct Drive – 4366-1503

# Connection Schematics

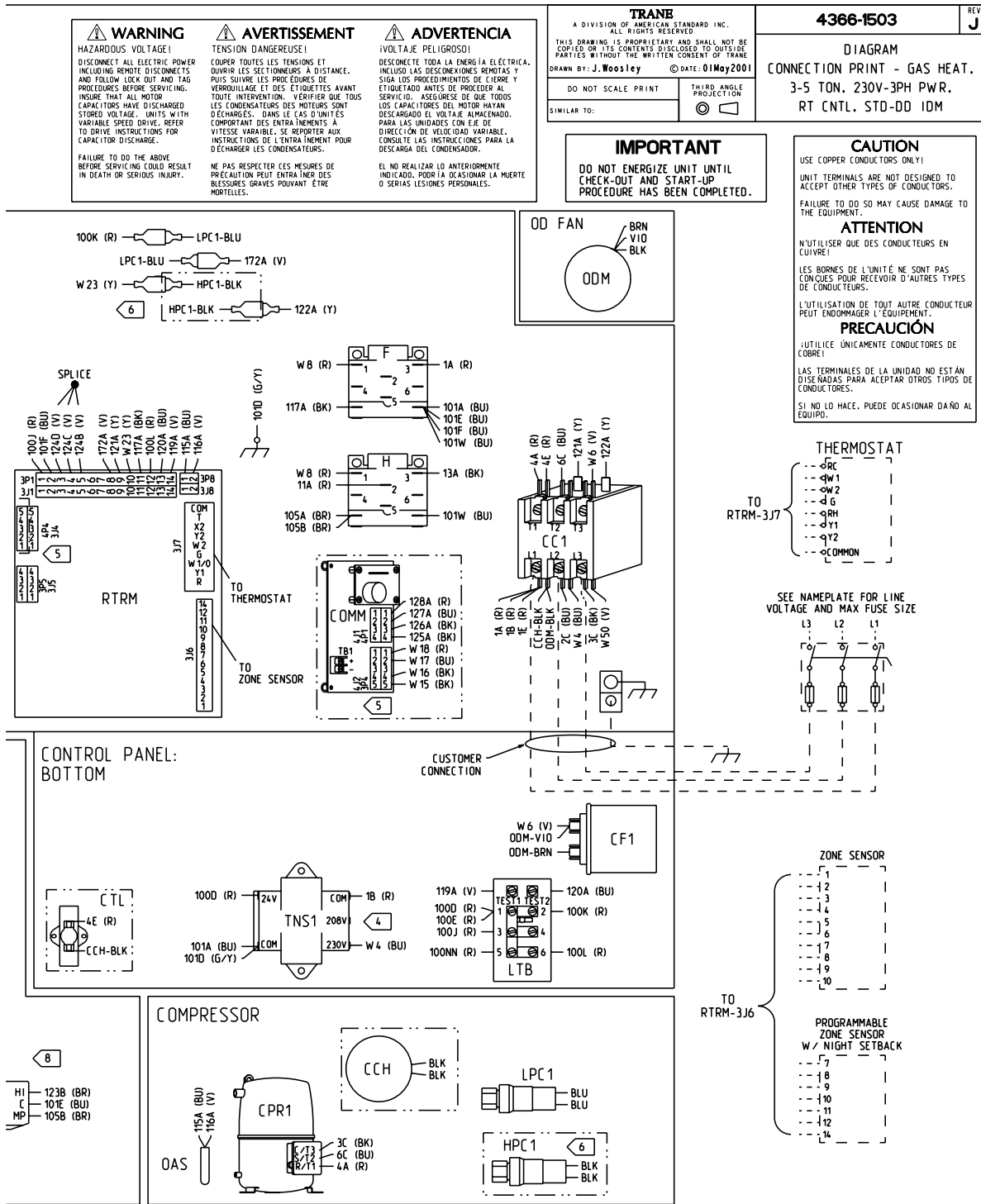


Figure 17. (continued from previous page) 230v/60hz/3ph – 3 - 5 Ton Single Stage Gas Heat / Direct Drive – 4366-1503

# Connection Schematics

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 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- 5 CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM. 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
- 6 CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
- 7 OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
- 8 (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.

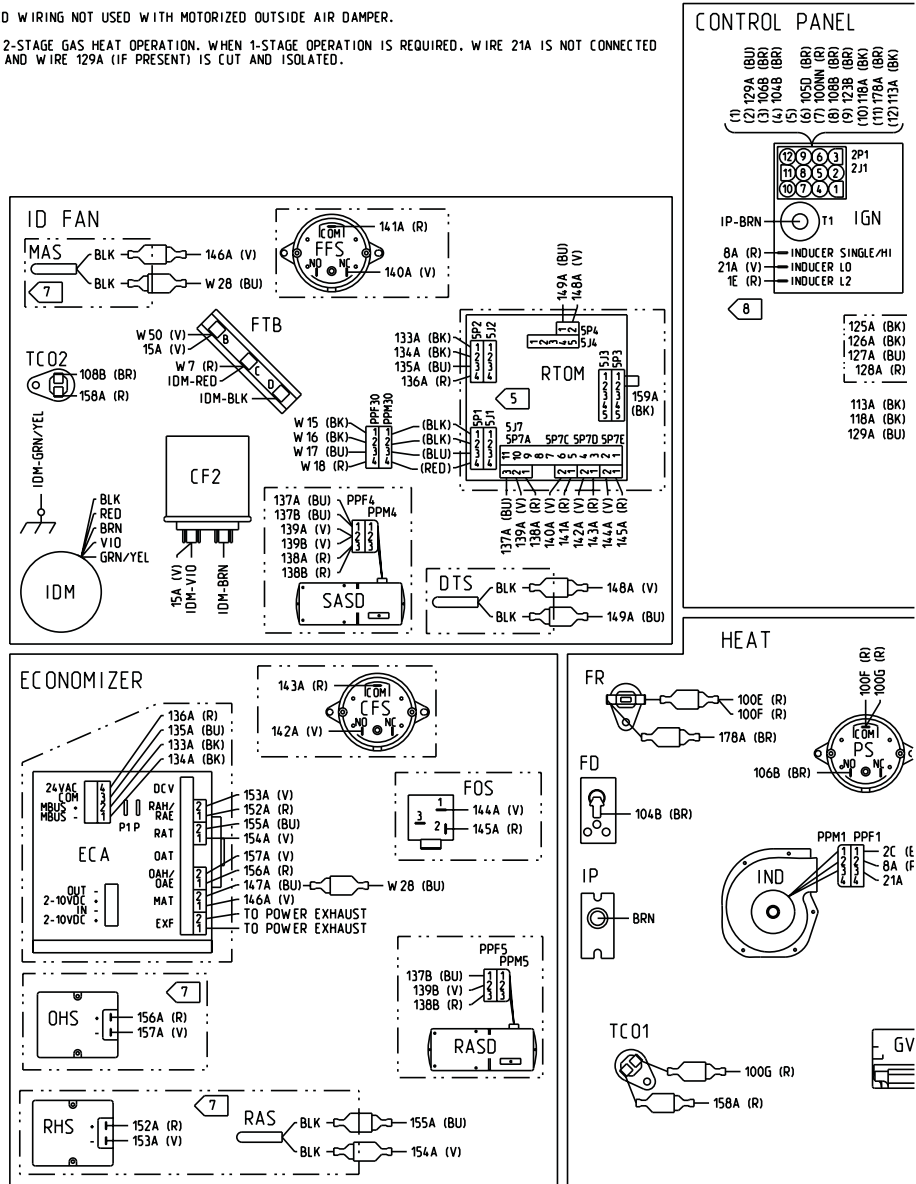


Figure 18. 230v/60hz/3ph – 3 - 5 Ton Single Stage Gas Heat / Oversize Motor – 4366-1504

# Connection Schematics

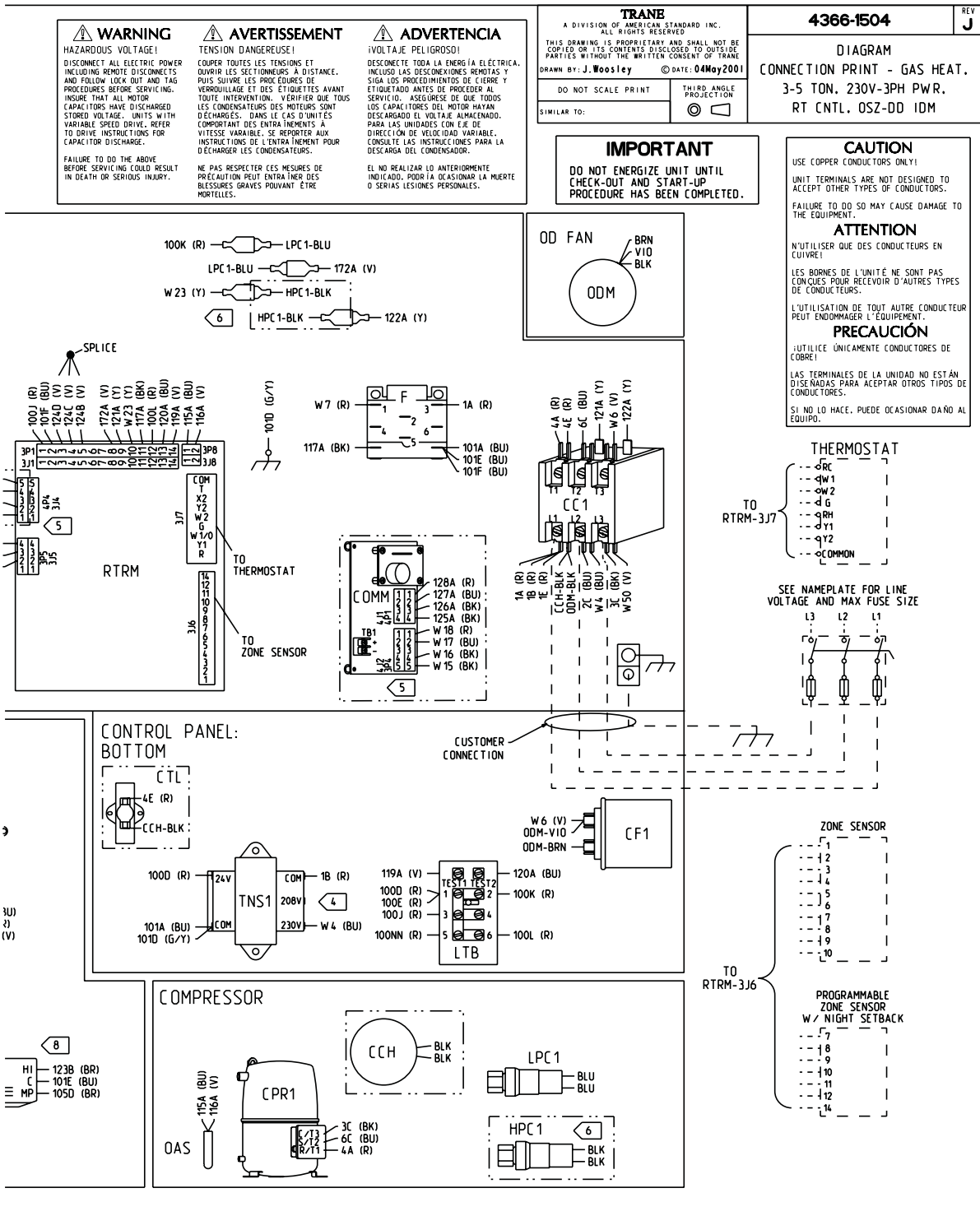


Figure 18. (continued from previous page) 230v/60hz/3ph — 3 - 5 Ton Single Stage Gas Heat / Oversize Motor — 4366-1504

# Connection Schematics

- 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.
- IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED. REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
- THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J7. IF ECA IS INSTALLED WITHOUT RTOM, 5P2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
- CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1 AND TDL1. IF NEITHER OPTION IS INSTALLED, CONNECT WIRE W23 TO WIRE 122A. IF EITHER OR BOTH OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN.
- OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
- (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.
- COMPONENTS 3P2, 3P3, 5P8, 5P9, 5P10, NLTB, LTB 7-14, RHV, RTCM AND ASSOCIATED WIRING ARE PRESENT ONLY WITH DEHUMIDIFICATION OPTION.
- SEE CO2 & VENT. OVERRIDE ACCESSORY DIAGRAM FOR ADDITIONAL WIRING.
- CONNECTIONS SHOWN ARE FOR DEHUMIDIFICATION OPTION (2-SPEED ODM). FOR 1-SPEED ODM, WIRES ODM-RED, 1S, 101AL, 196A, AND RELAY ODF2 ARE NOT PRESENT AND WIRE ODM-BLK IS CONNECTED TO CC1, TERMINAL L1.
- FOR 200V/208V/230V DEHUMIDIFICATION OPTION, WIRE 32A IS NOT CONNECTED.
- CUT AND ISOLATE WIRE 124B IF DEHUMIDIFICATION OPTION IS INSTALLED.
- WHEN WIRES 158D AND W51 ARE NOT PRESENT, CONNECT WIRES 158A AND 100G DIRECTLY TO TC01.

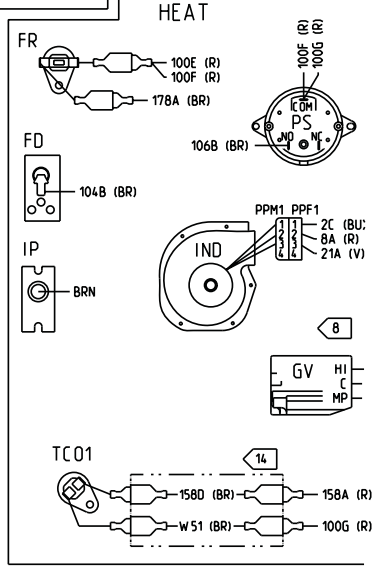
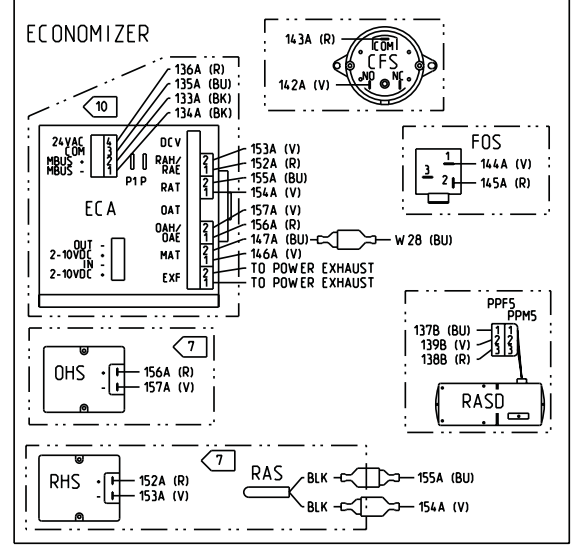
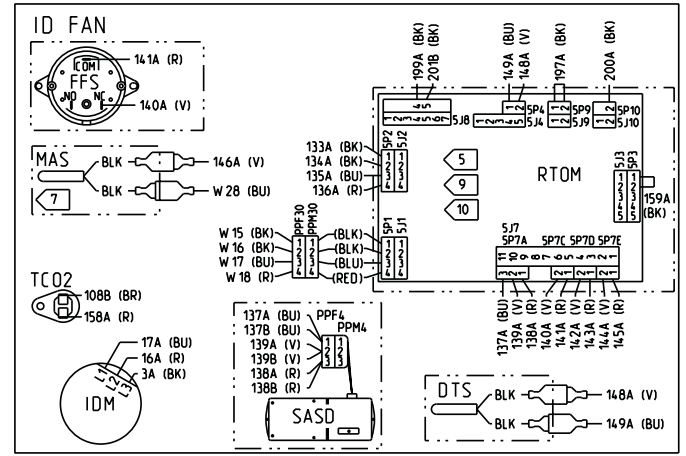
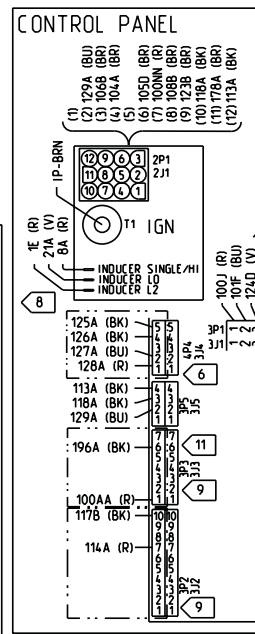
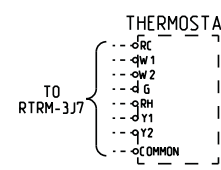


Figure 19. 230v/60hz/3ph — 3-5 Ton Single Stage Gas Heat / Belt Drive — 4366-1522

# Connection Schematics

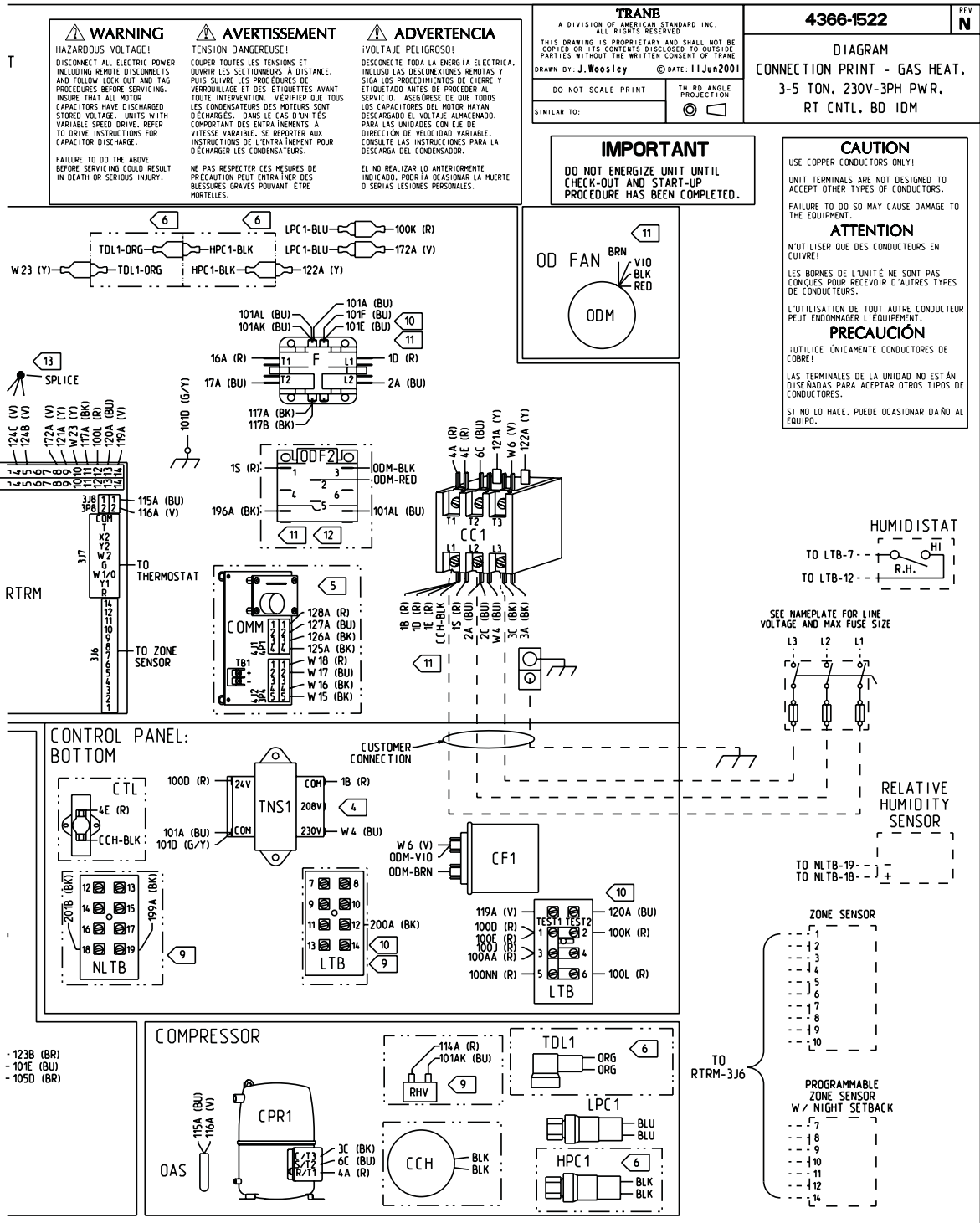


Figure 19. (continued from previous page) 230v/60hz/3ph — 3 - 5 Ton Single Stage Gas Heat / Belt Drive — 4366-1522



# Connection Schematics

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 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
5. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM, ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
6. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
7. 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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.

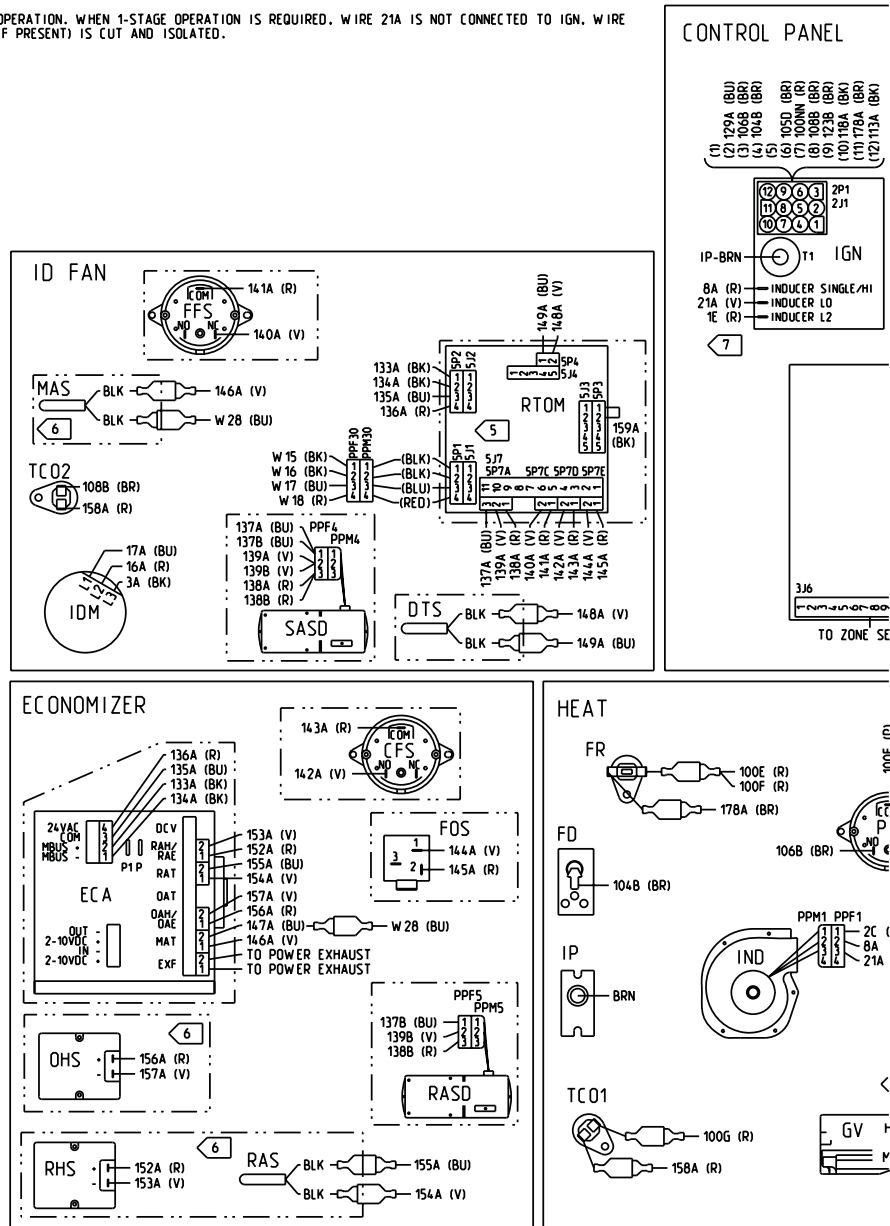


Figure 20. 230v/60hz/3ph – 6 - 7.5 Ton Gas Heat / Single Compressor – 4366-1539



# Connection Schematics

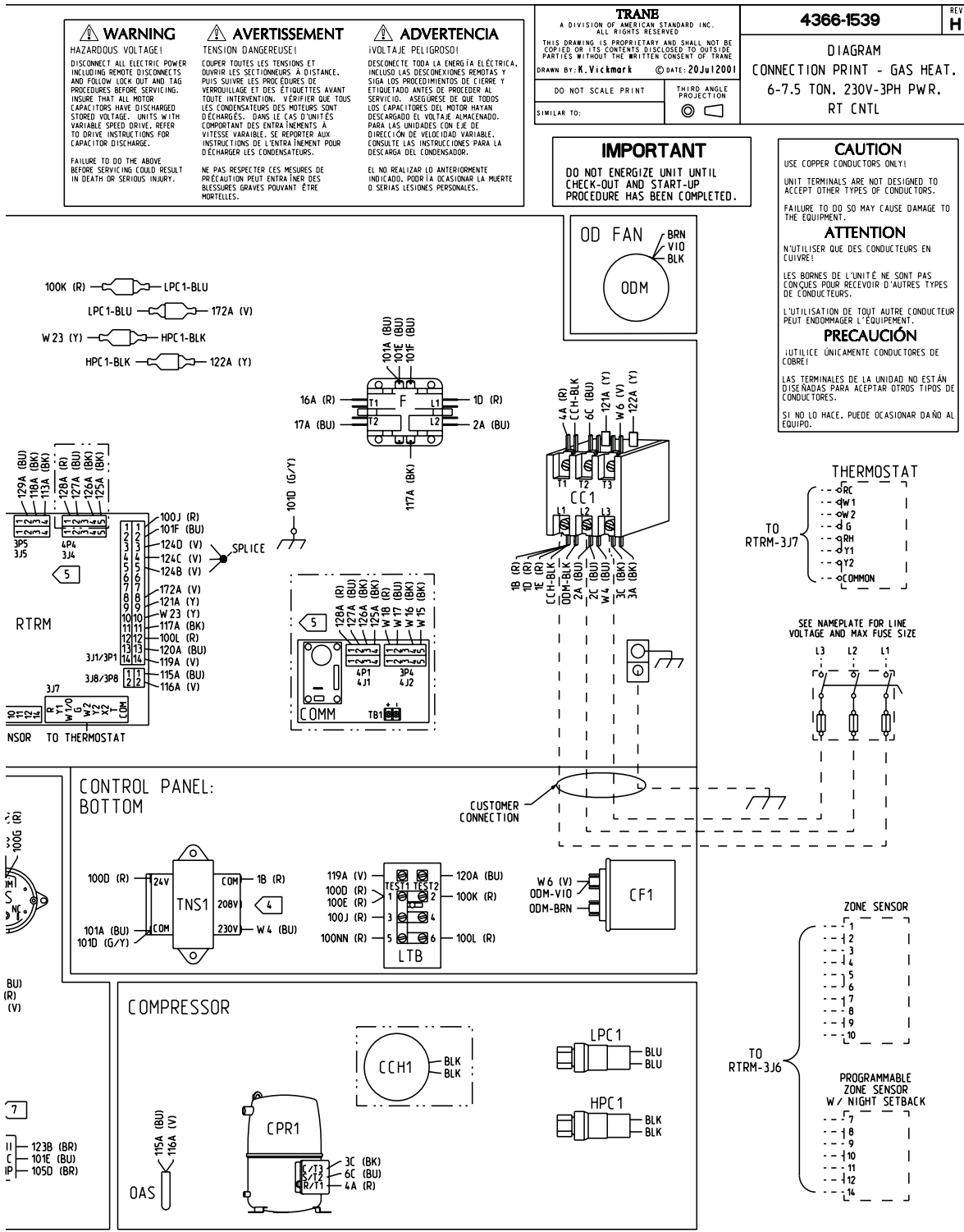


Figure 20. (continued from previous page) 230v/60hz/3ph — 6 - 7.5 Ton Gas Heat / Single Compressor — 4366-1539

# Connection Schematics

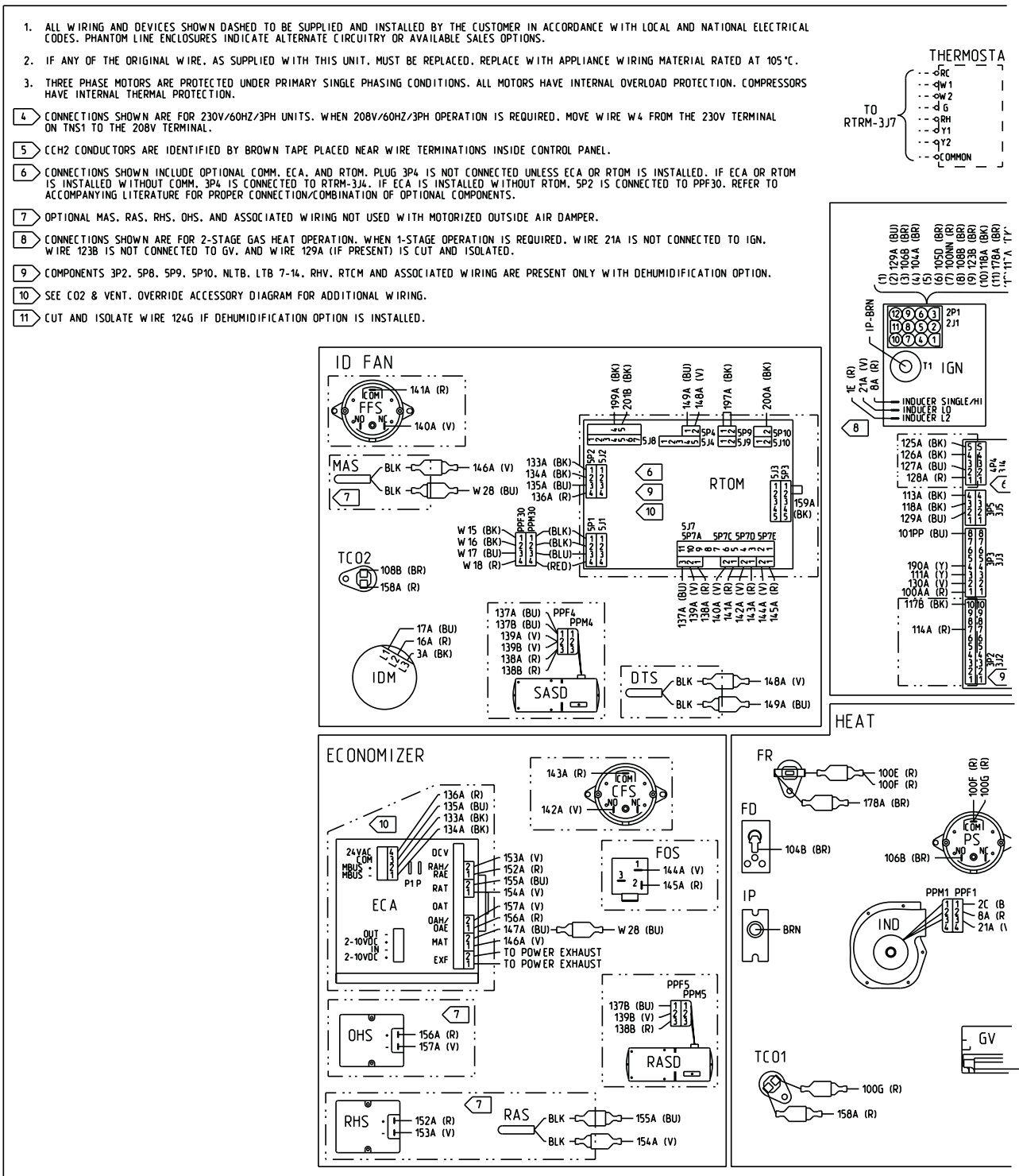
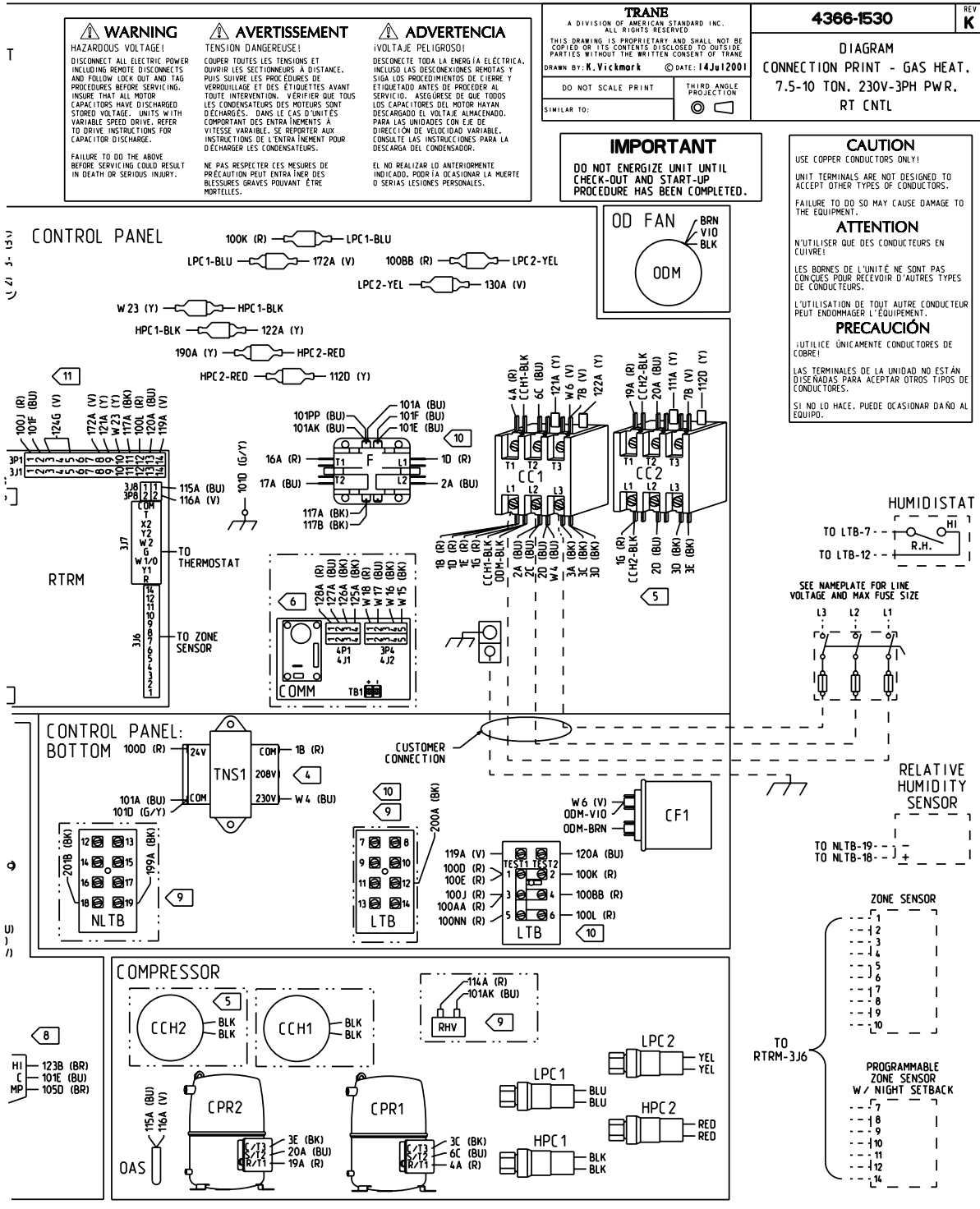


Figure 21. 230v/60hz/3ph – 7.5 - 10 Ton Gas Heat / Dual Compressor – 4366-1530

# Connection Schematics



# Connection Schematics

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 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 WIRE TNS2-BLU-PRI FROM CC1-L2 AND CONNECT WIRE TNS2-BLK-PRI TO CC1-L2.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM. 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
7. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
8. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. (FUTURE) 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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.
10. WIRE TNS2-GRN/YEL IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.

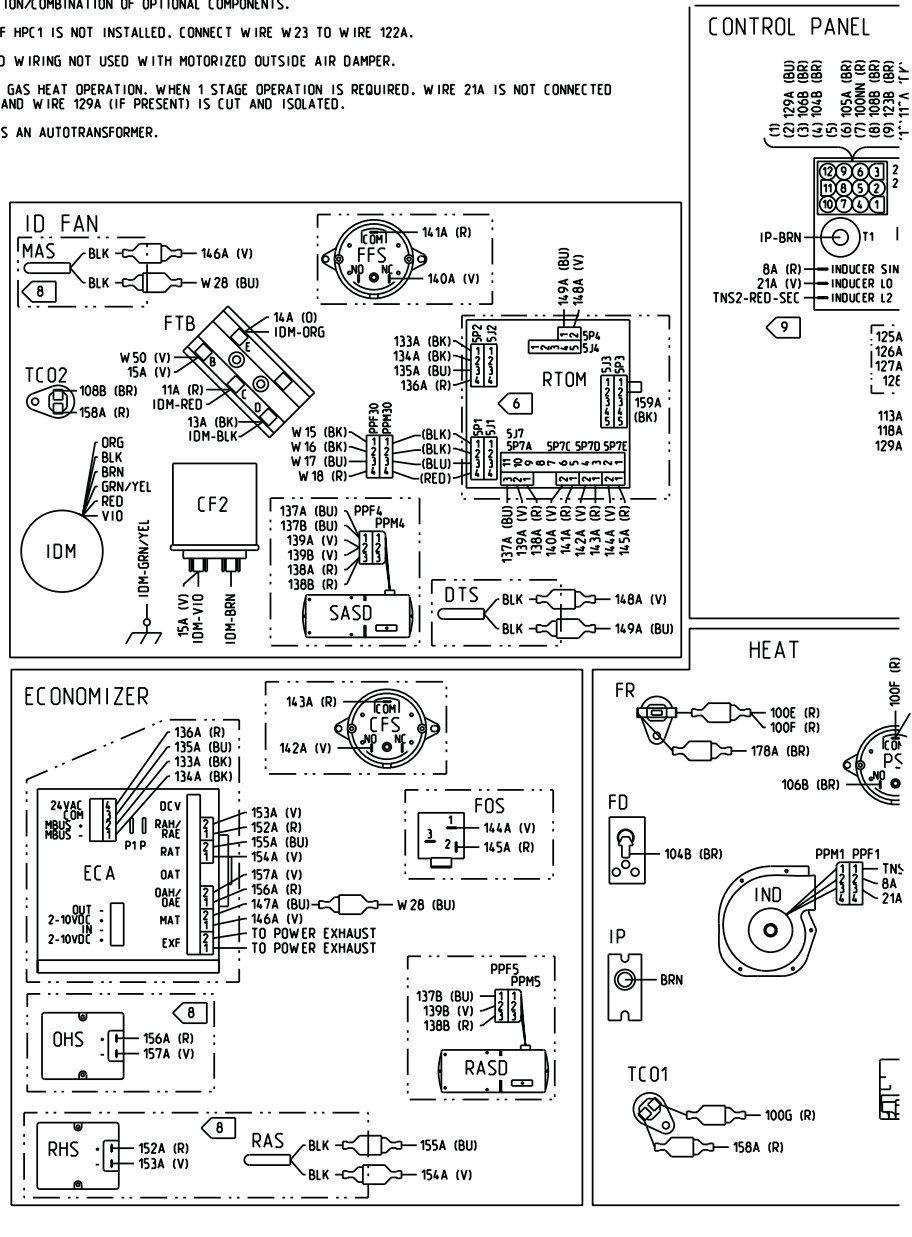


Figure 22. 460-575v/60hz/3ph – 3 Ton Gas Heat / Direct Drive – 4366-1514

# Connection Schematics

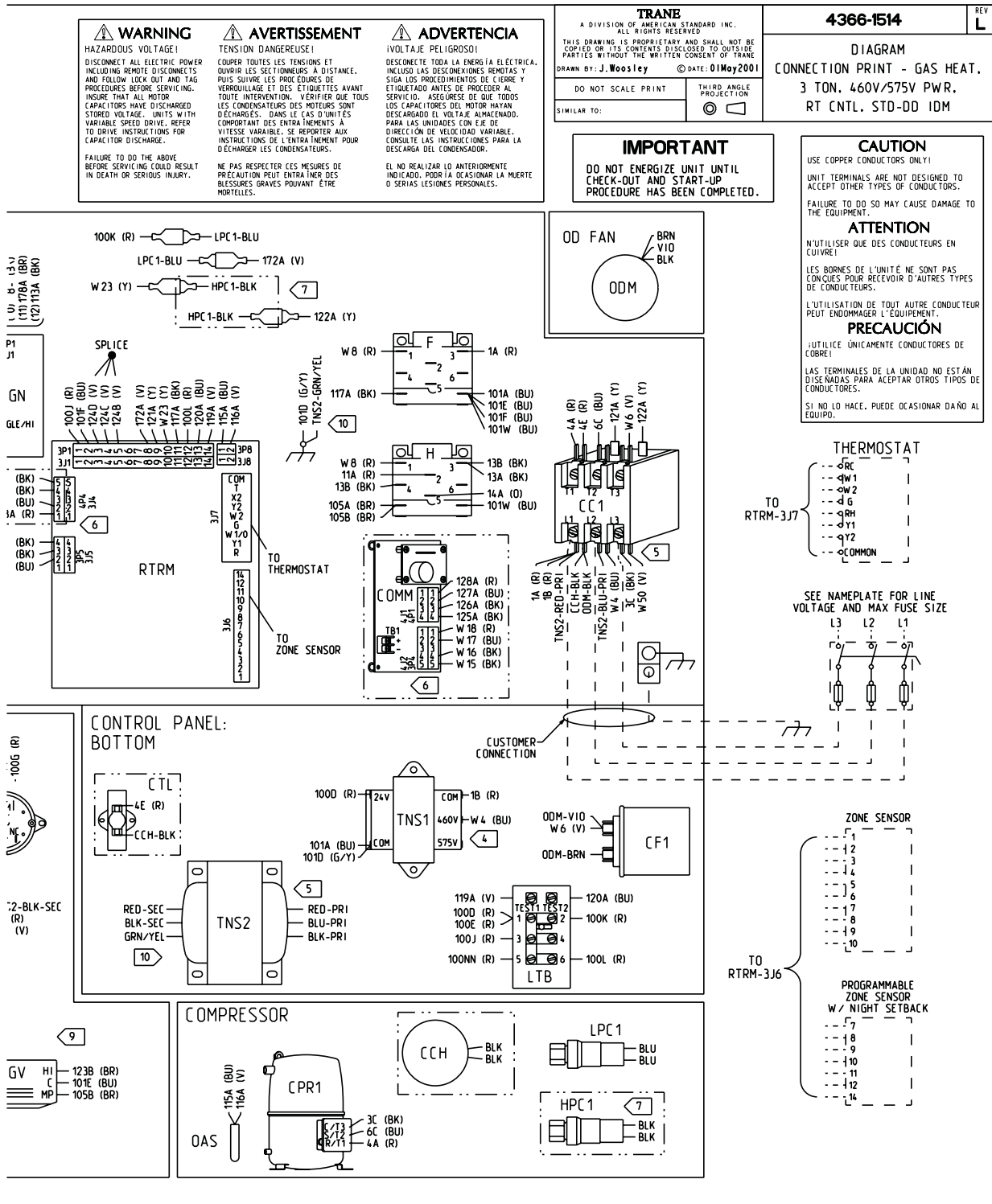


Figure 22. (continued from previous page) 460-575v/60hz/3ph – 3 Ton Gas Heat / Direct Drive – 4366-1514

# Connection Schematics

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 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 CC1-L2 AND CONNECT WIRE TNS2-BLK-PRI TO CC1-L2.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM. 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
7. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
8. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. (FUTURE) 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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.
10. WIRE TNS2-GRN/YEL IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.

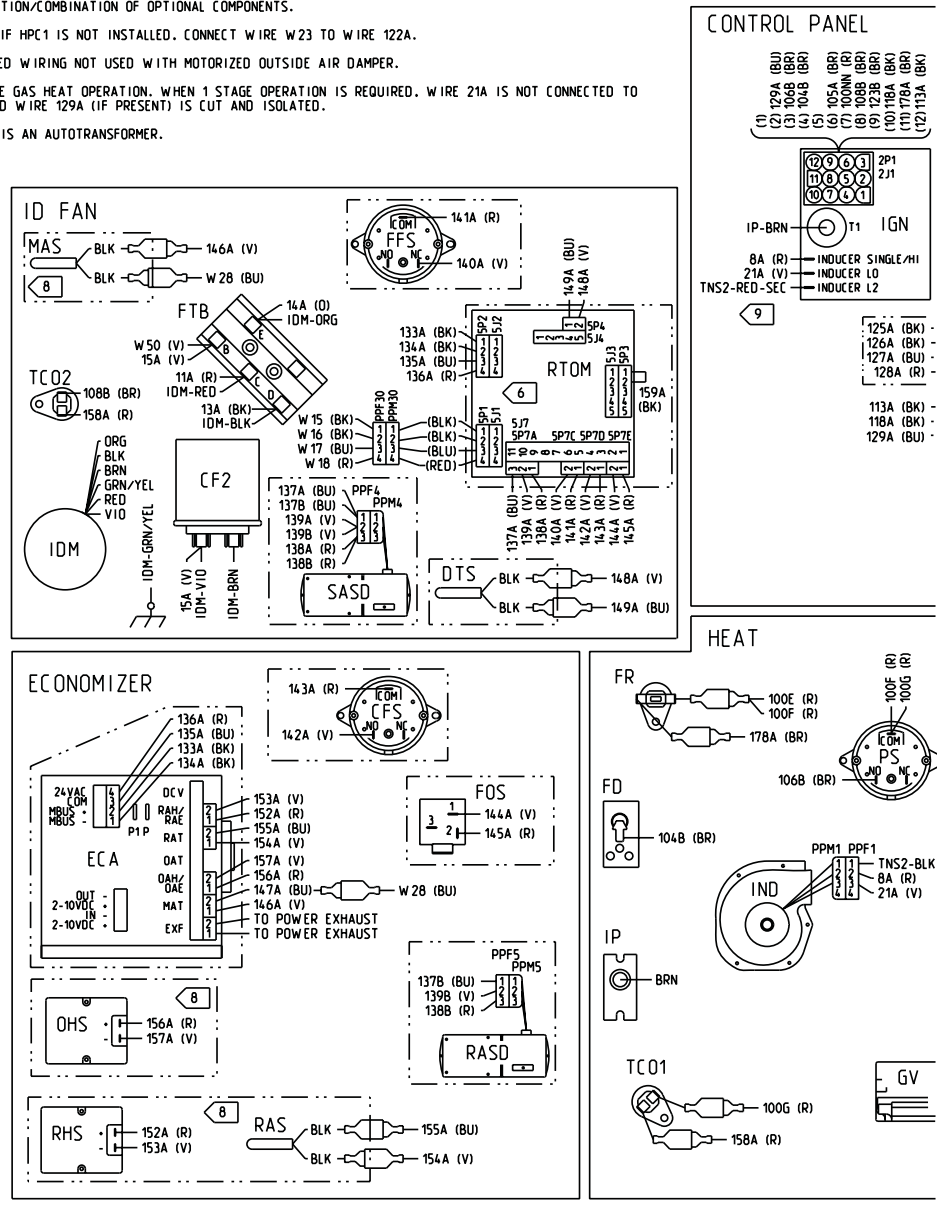


Figure 23. 460-575v/60hz/3ph – 4 - 5 Ton Gas Heat / Direct Drive – 4366-1518

# Connection Schematics

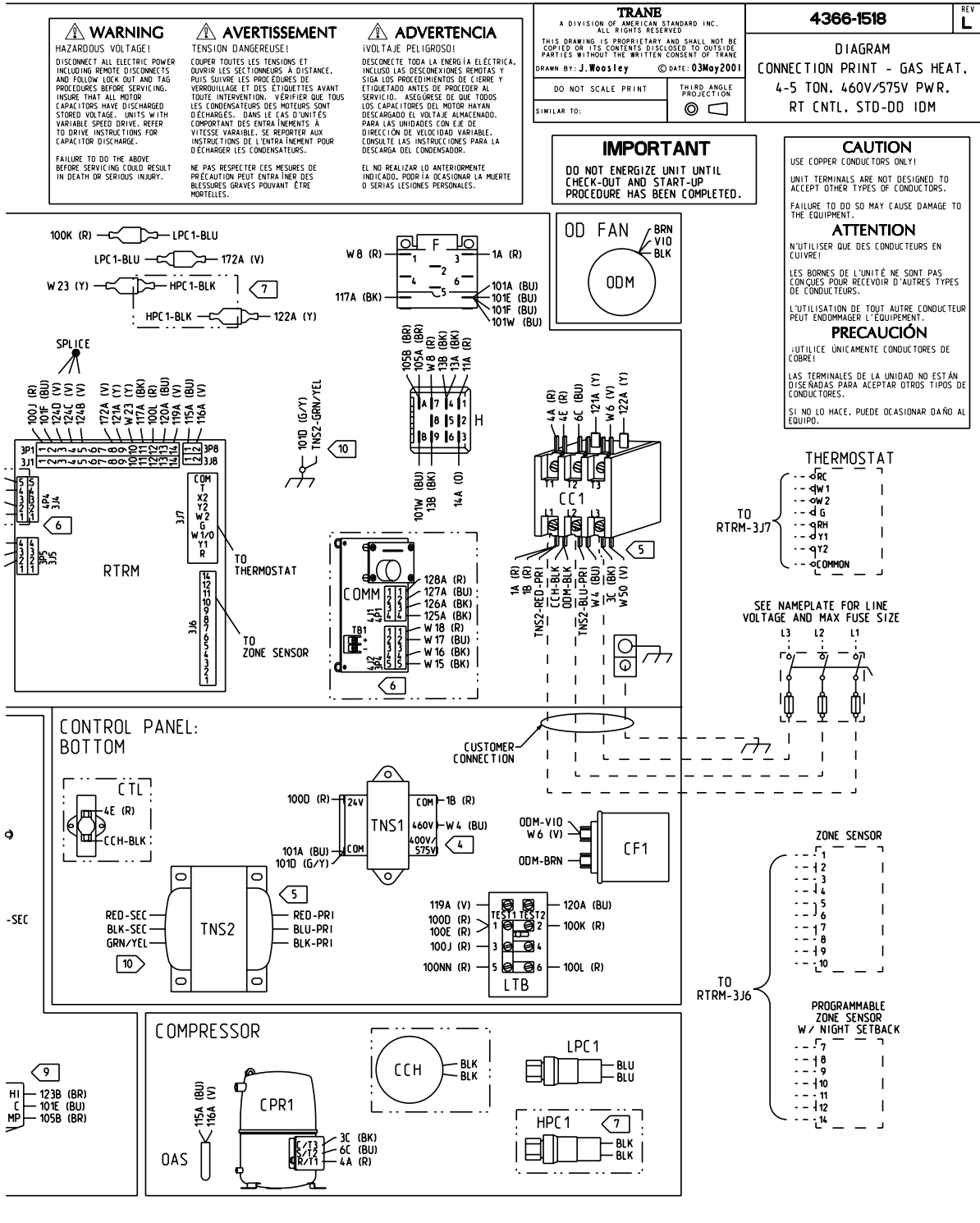


Figure 23. (continued from previous page) 460-575v/60hz/3ph — 4 - 5 Ton Gas Heat / Direct Drive — 4366-1518



# Connection Schematics

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 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 CC1-L2 AND CONNECT WIRE TNS2-BLK-PRI TO CC1-L2.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM. 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
7. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1. IF HPC1 IS NOT INSTALLED, CONNECT WIRE W23 TO WIRE 122A.
8. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
9. (FUTURE) 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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.
10. WIRE TNS2-GRN/YEL IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.

TO  
RTRM-3J7

CONTROL PA

(1) 129A (BU)  
(2) 106B (BR)  
(3) 106B (BR)  
(4) 106B (BR)

IP-BRN

8A (R)  
21A (V)  
TNS2-RED-SEC

9

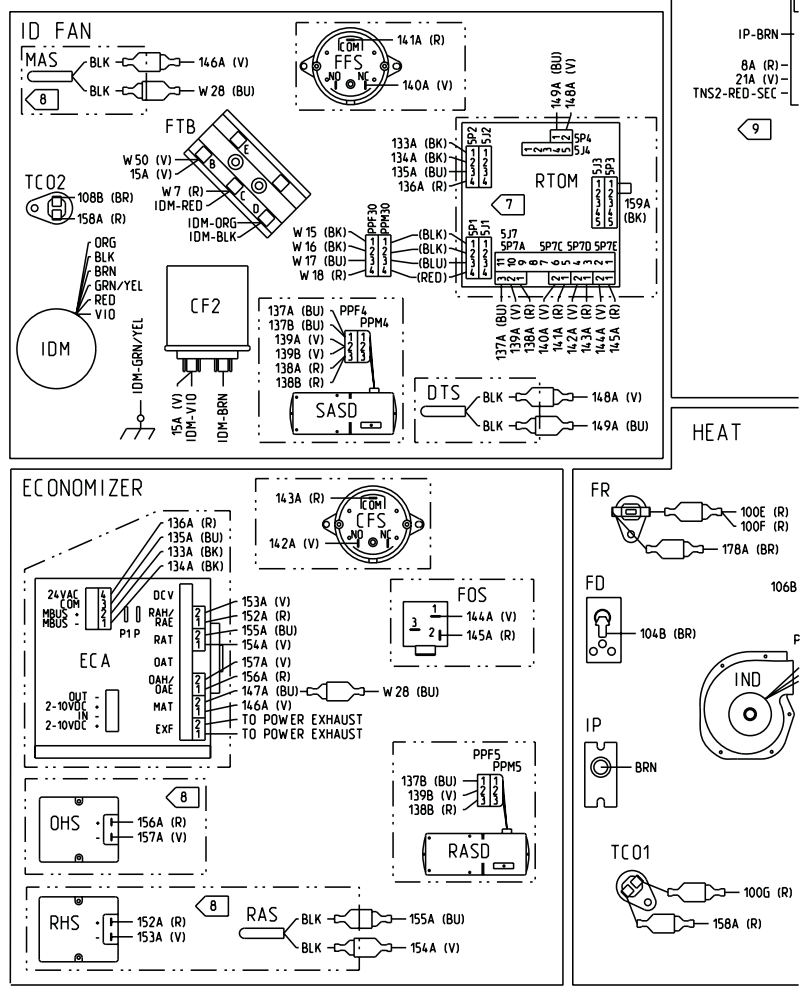


Figure 24. 460-575v/60hz/3ph — 4 - 5 Ton Gas Heat / Oversize Motor — 4366-1515



# Connection Schematics

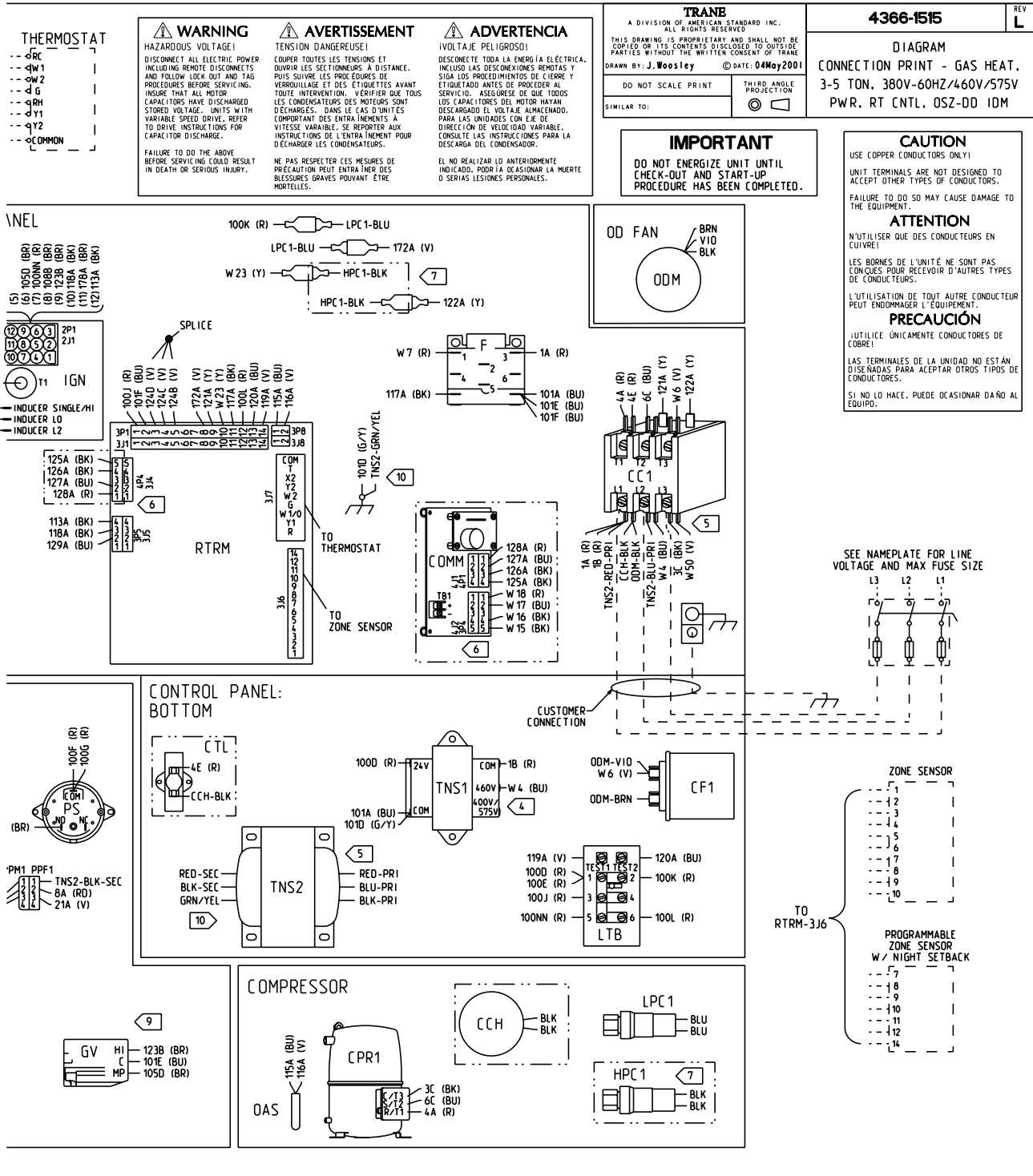


Figure 24. (continued from previous page) 460-575v/60hz/3ph – 4 - 5 Ton Gas Heat / Oversize Motor – 4366-1515

# Connection Schematics

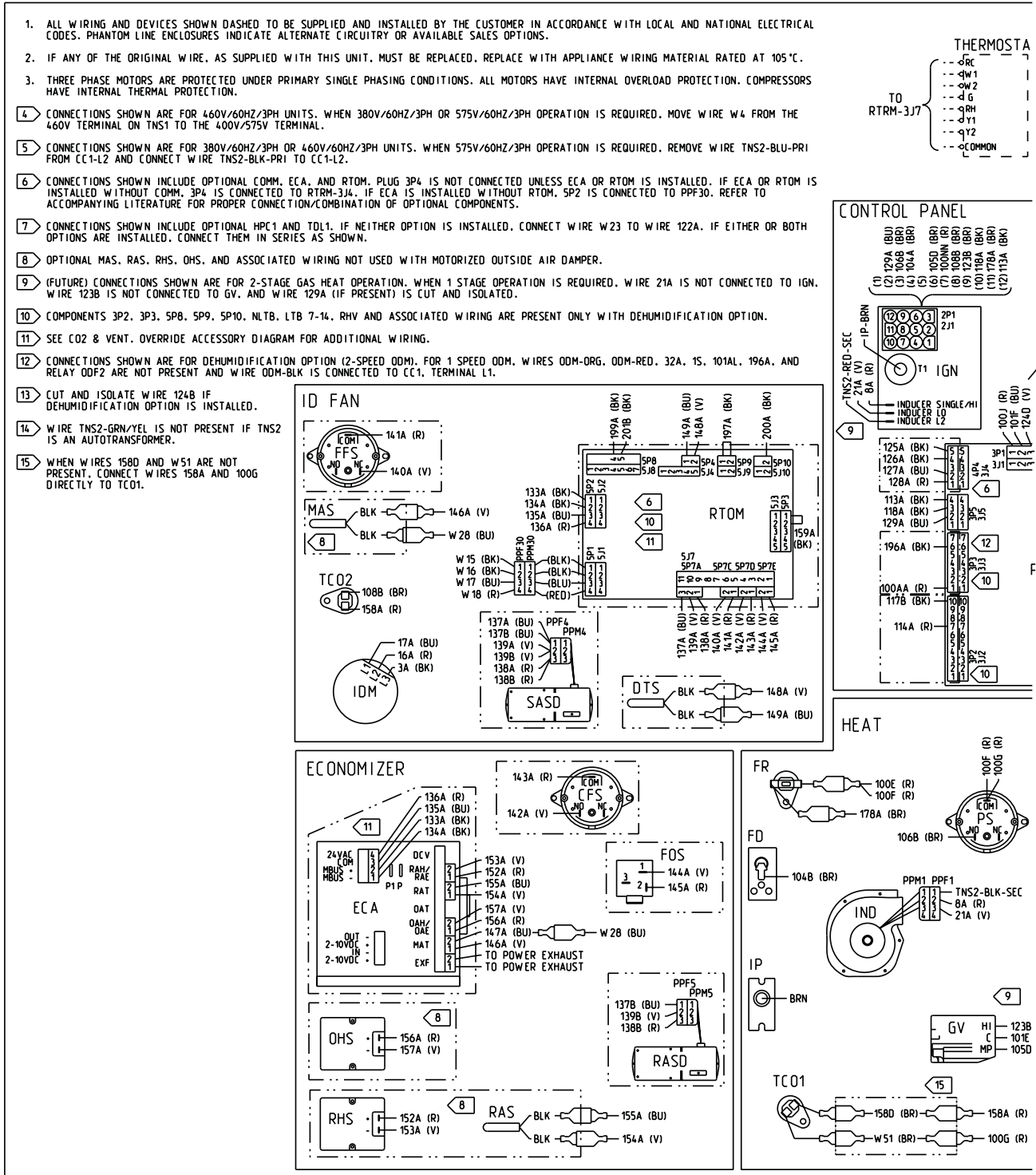


Figure 25. 460-575v/60hz/3ph – 3 - 5 Ton Gas Heat / Belt Drive – 4366-1516

# Connection Schematics

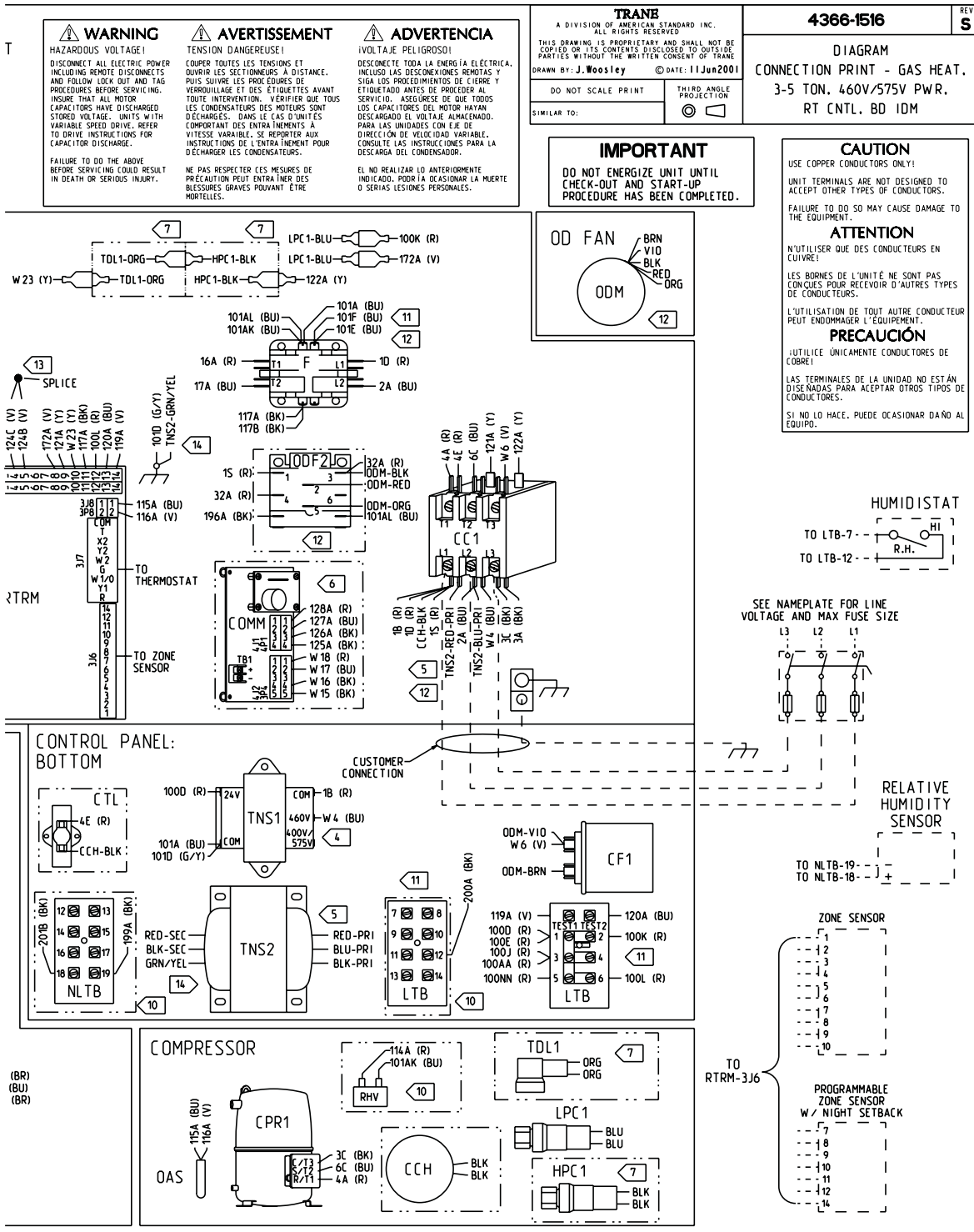


Figure 25. (continued from previous page) 460-575v/60hz/3ph – 3 - 5 Ton Gas Heat / Belt Drive – 4366-1516

# Connection Schematics

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 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 CC1-L2 AND CONNECT WIRE TNS2-BLK-PRI TO CC1-L2.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
7. OPTIONAL MAS, RAS, RHS, OHS, 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 GV PINS 1 AND 3 ARE JUMPED WITH WIRE W37 (NOT SHOWN, 50HZ ONLY).
9. WIRE TNS2-GRN/YEL IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.

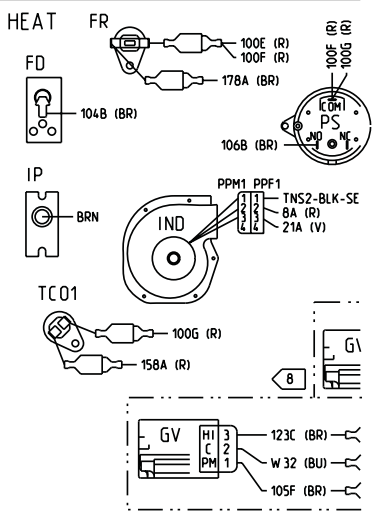
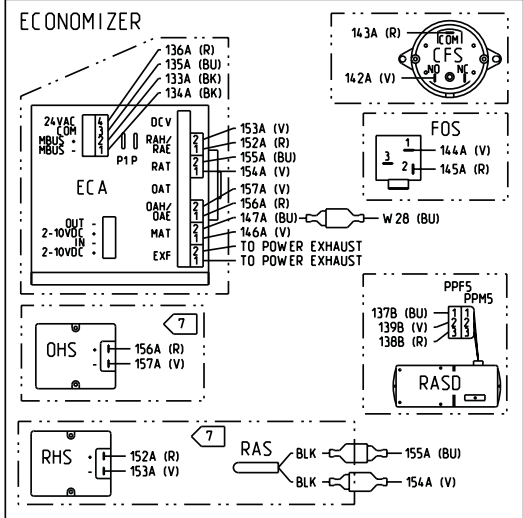
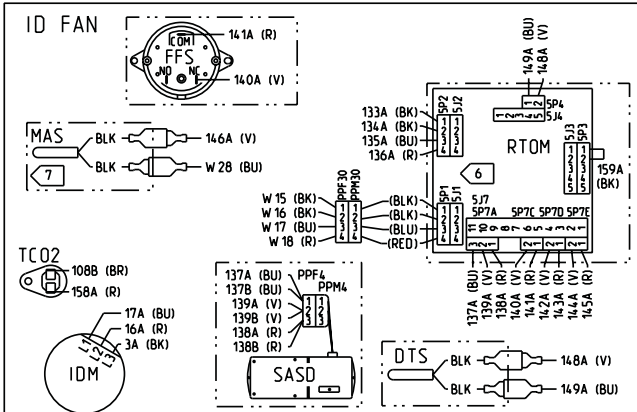
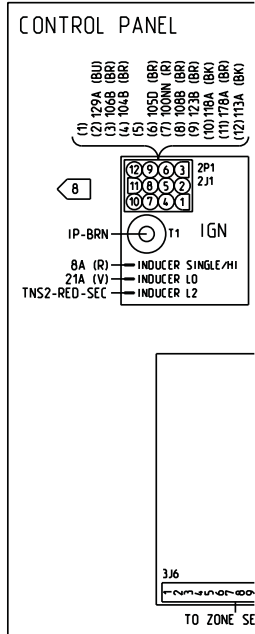


Figure 26. 460-575v/60hz/3ph – 6 - 7.5 Ton Gas Heat / Single Compressor – 4366-1540

# Connection Schematics

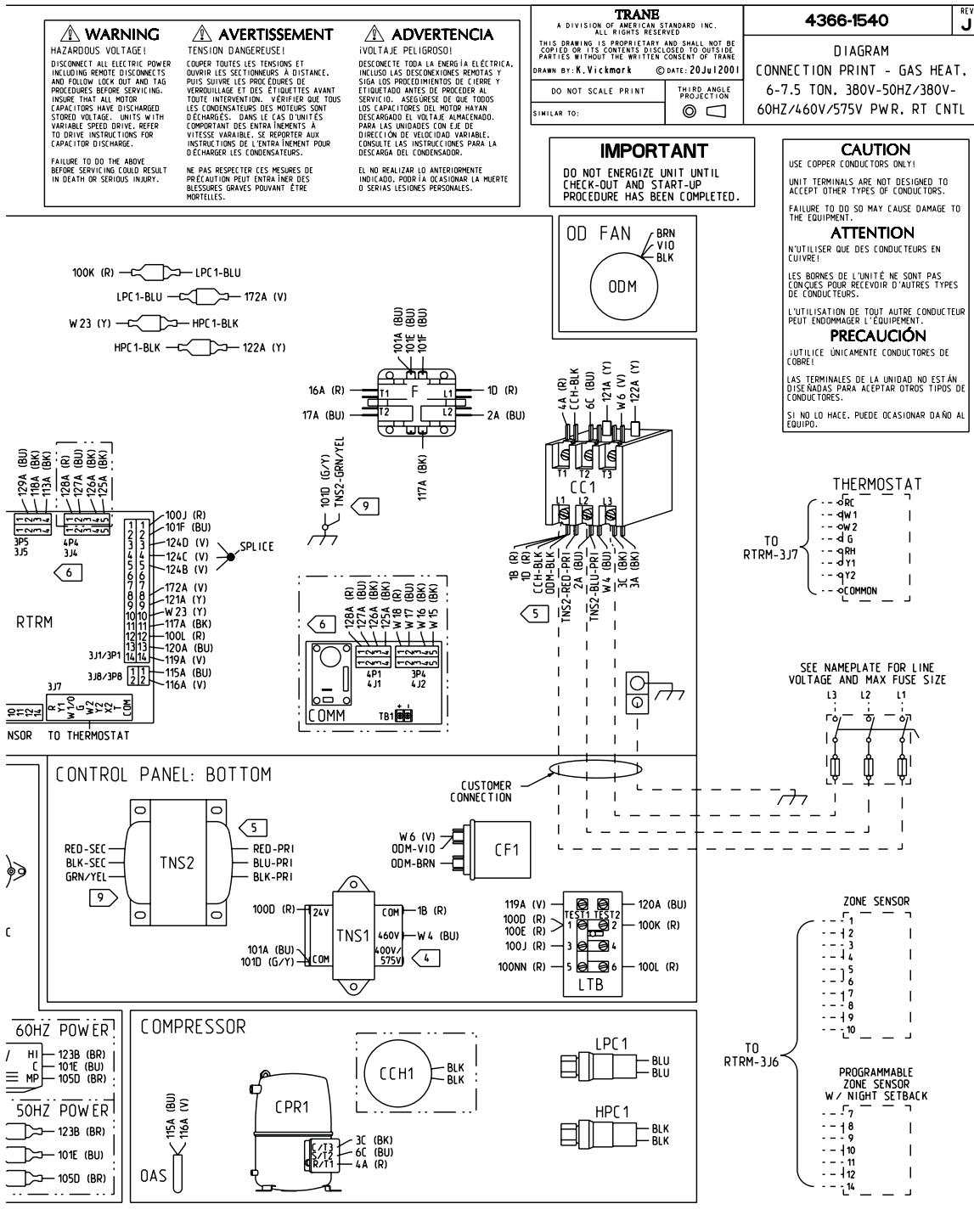


Figure 26. (continued from previous page) 460-575v/60hz/3ph — 6 - 7.5 Ton Gas Heat / Single Compressor — 4366-1540



# Connection Schematics

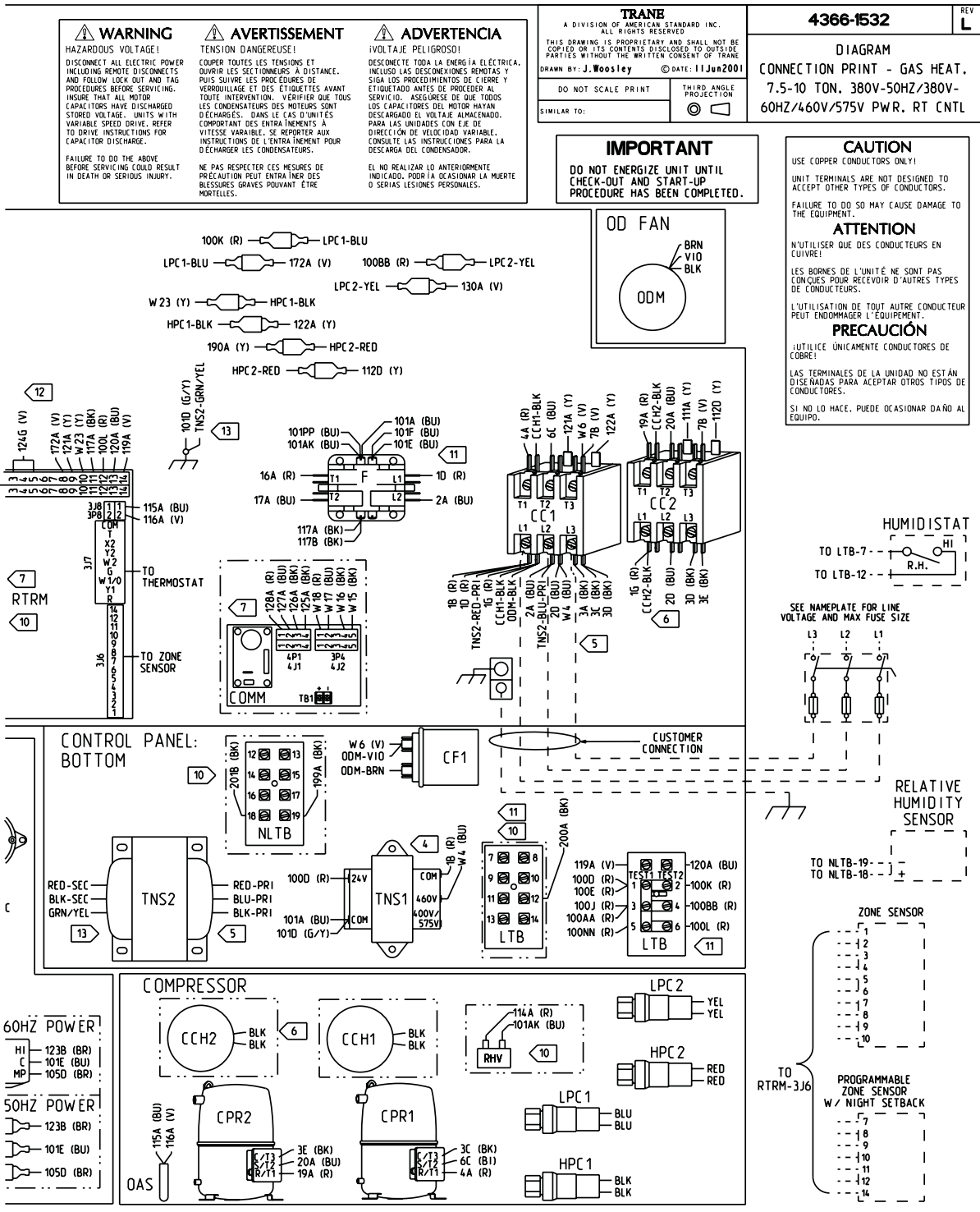


Figure 27. (continued from previous page) 460-575v/60hz/3ph – 7.5 - 10 Ton Gas Heat / Dual Compressor – 4366-1532



# Connection Schematics

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. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM. ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1 AND TDL1. IF NEITHER OPTION IS INSTALLED, CONNECT WIRE W23 TO WIRE 122A. IF EITHER OR BOTH OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN.
7. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
8. (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.
9. WHEN WIRES 158D AND W51 ARE NOT PRESENT, CONNECT WIRES 158A AND 100G DIRECTLY TO TC01.
10. MINIMUM HEATING SPEED IS TAP 4. TO SET COOLING AND HEATING TO THE SAME SPEED (TAP 4 OR 5), DISCONNECT WIRE W54 FROM IDM AND CONNECT IT TO THE EXTRA TERMINAL PROVIDED ON WIRE W56.

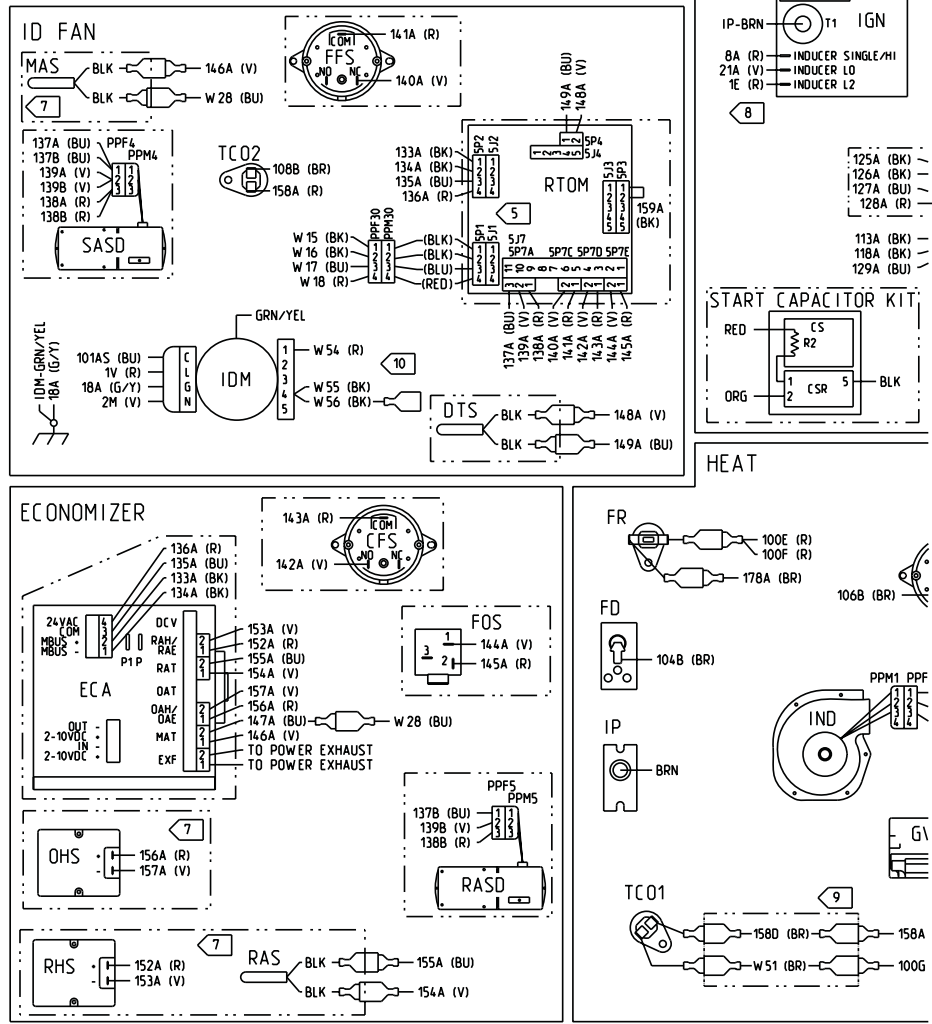


Figure 28. 230v/60Hz/1Ph – 3 - 4 Ton R410A / Direct Drive Indoor Motor – 4366-4564



# Connection Schematics

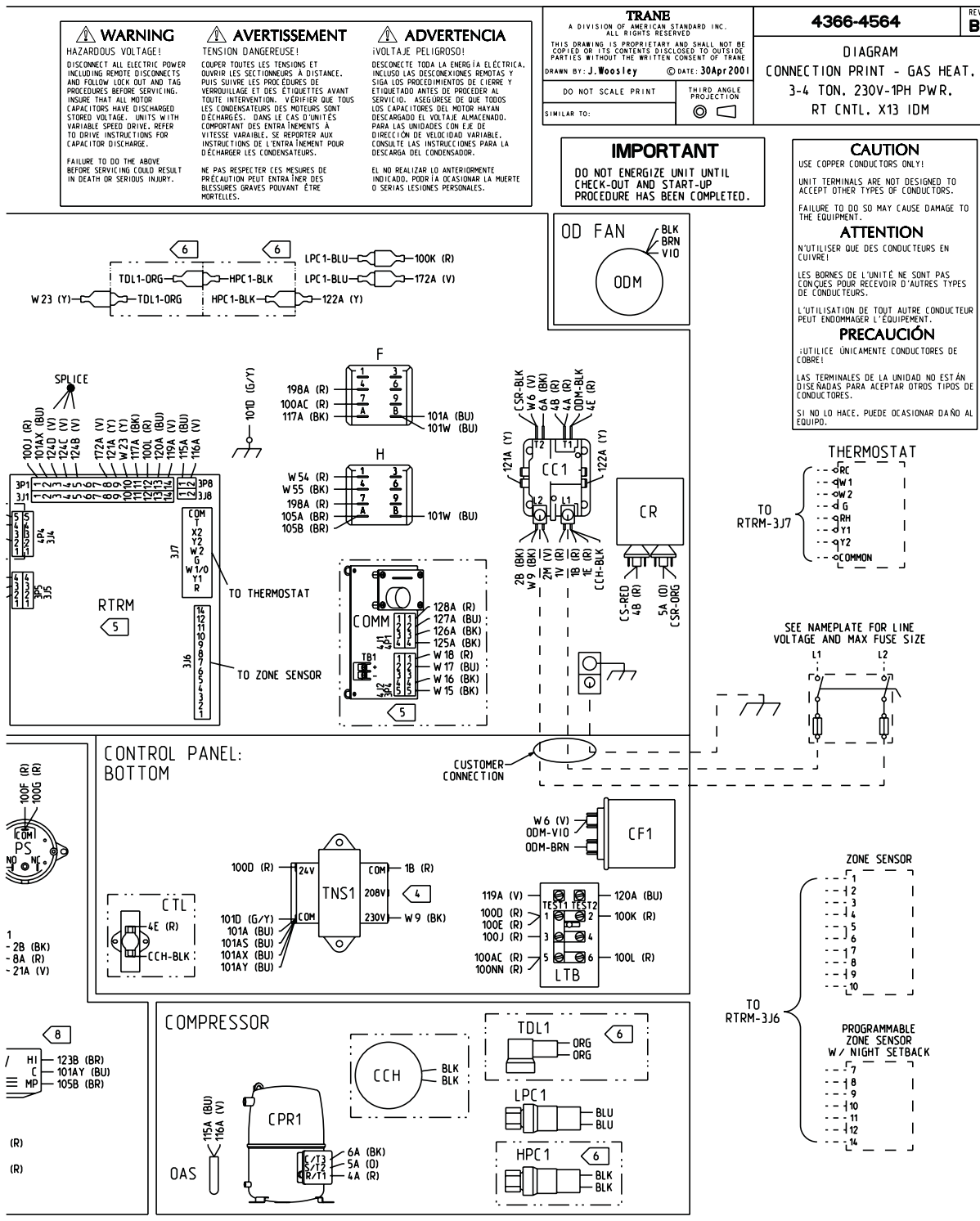


Figure 28. (continued from previous page) 230v/60Hz/1Ph – 3 - 4 Ton R410A / Direct Drive Indoor Motor – 4366-4564

# Connection Schematics

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. CONNECTIONS SHOWN INCLUDE OPTIONAL COMM, ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
6. CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1 AND TD1. IF NEITHER OPTION IS INSTALLED, CONNECT WIRE W23 TO WIRE 122A. IF EITHER OR BOTH OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN.
7. OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
8. (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.
9. WHEN WIRES 158D AND W51 ARE NOT PRESENT, CONNECT WIRES 158A AND 100G DIRECTLY TO TC01.

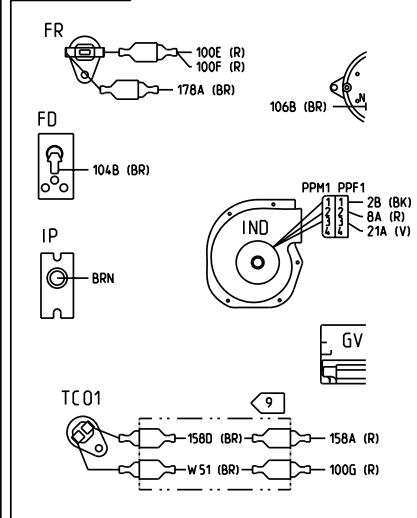
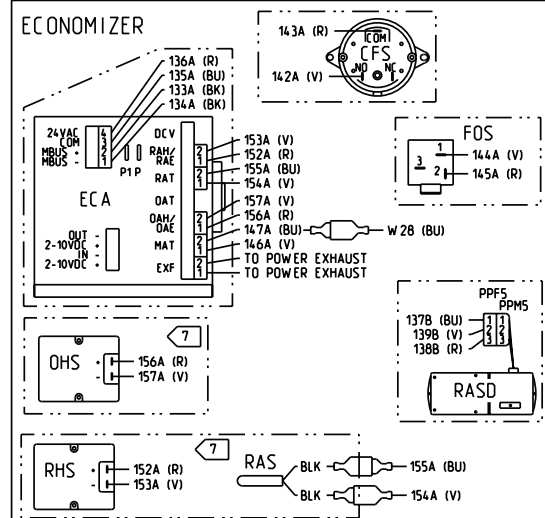
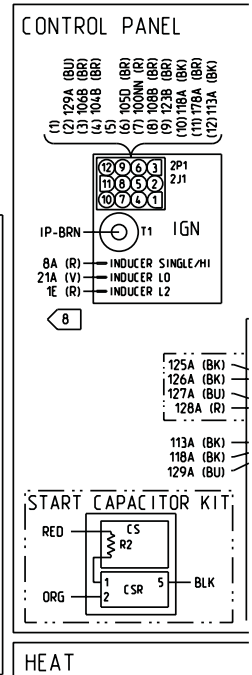
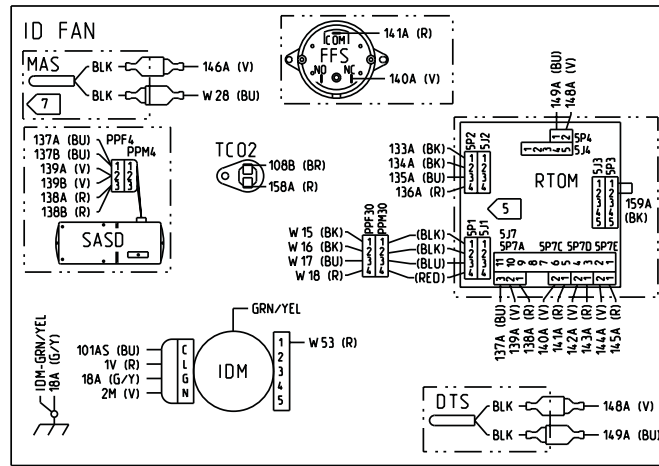


Figure 29. 230v/60Hz/1Ph – 5 Ton R410A / Direct Drive Indoor Motor – 4366-4705

# Connection Schematics

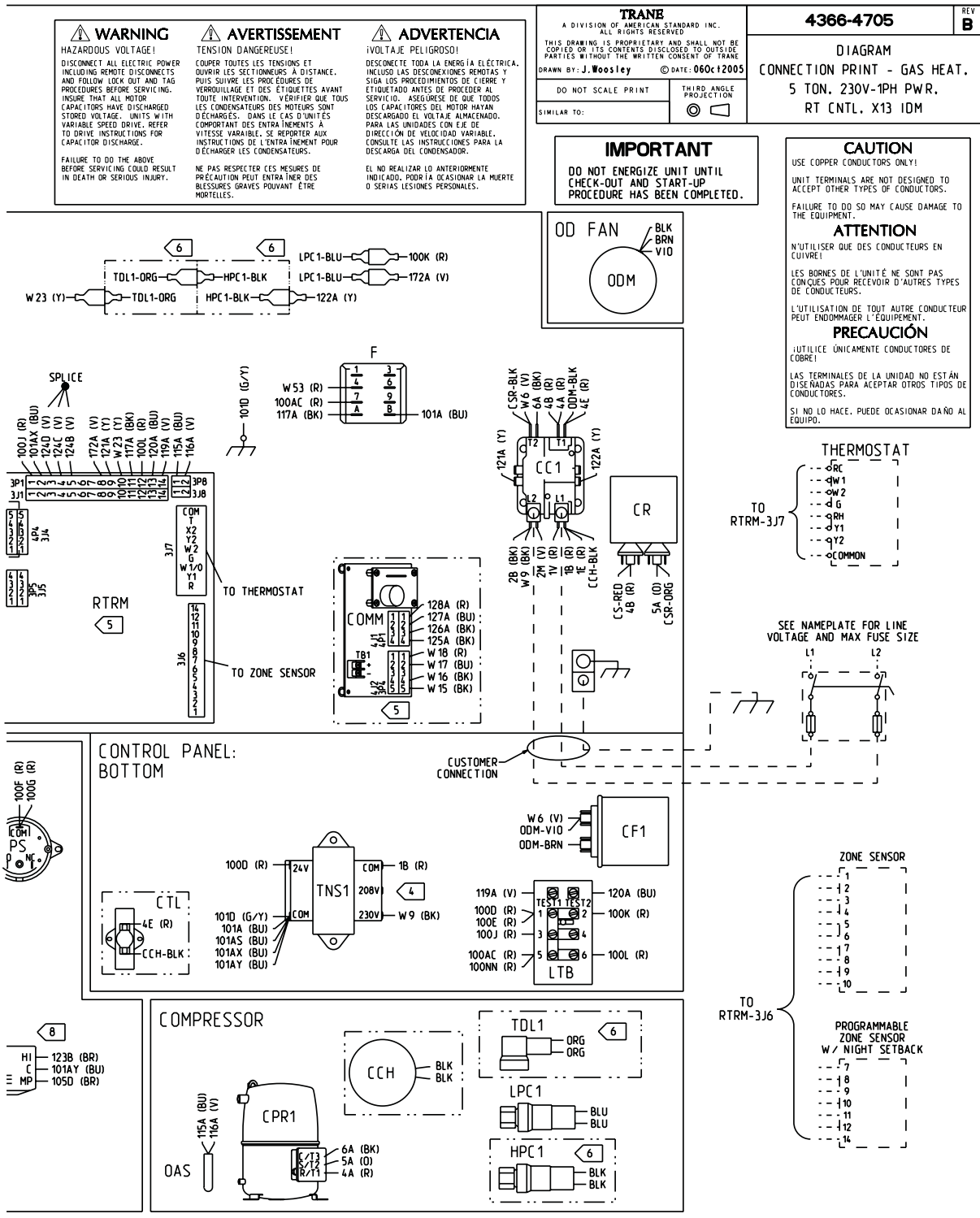


Figure 29. (continued from previous page) 230v/60Hz/1Ph – 5 Ton R410A / Direct Drive Indoor Motor – 4366-4705

# Connection Schematics

- 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.
- IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
- THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- CONNECTIONS SHOWN INCLUDE OPTIONAL COMM, ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
- CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1 AND TDL1. IF NEITHER OPTION IS INSTALLED, CONNECT WIRE W23 TO WIRE 122A. IF EITHER OR BOTH OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN.
- OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
- (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.
- MINIMUM HEATING SPEED IS TAP 4. TO SET COOLING AND HEATING TO THE SAME SPEED (TAP 4 OR 5), DISCONNECT WIRE W54 FROM IDM AND CONNECT IT TO THE EXTRA TERMINAL PROVIDED ON WIRE W56.

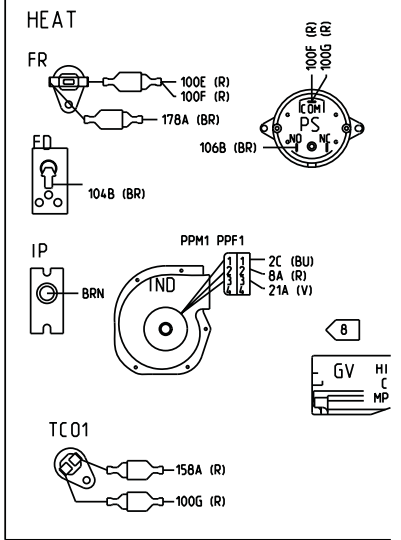
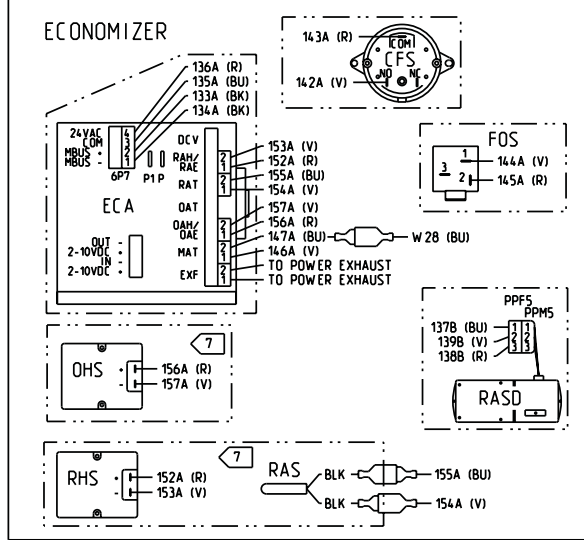
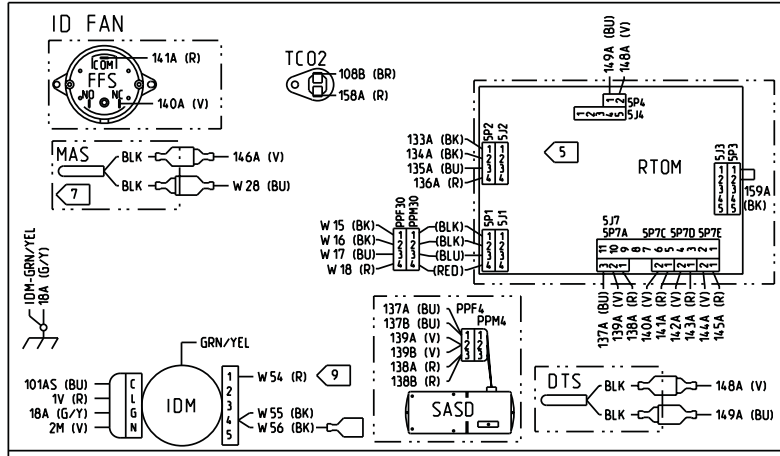
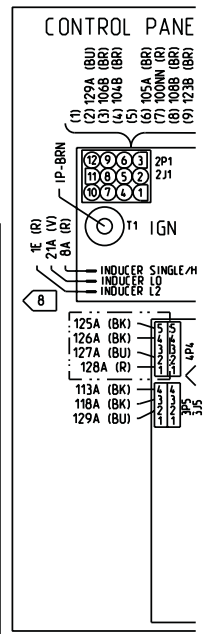
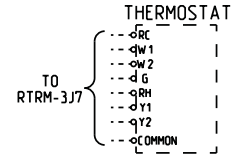


Figure 30. 230v/60Hz/3Ph – 3 - 4 Ton Hi Eff / R410A / Direct Drive Indoor Motor – 4366-5185

# Connection Schematics

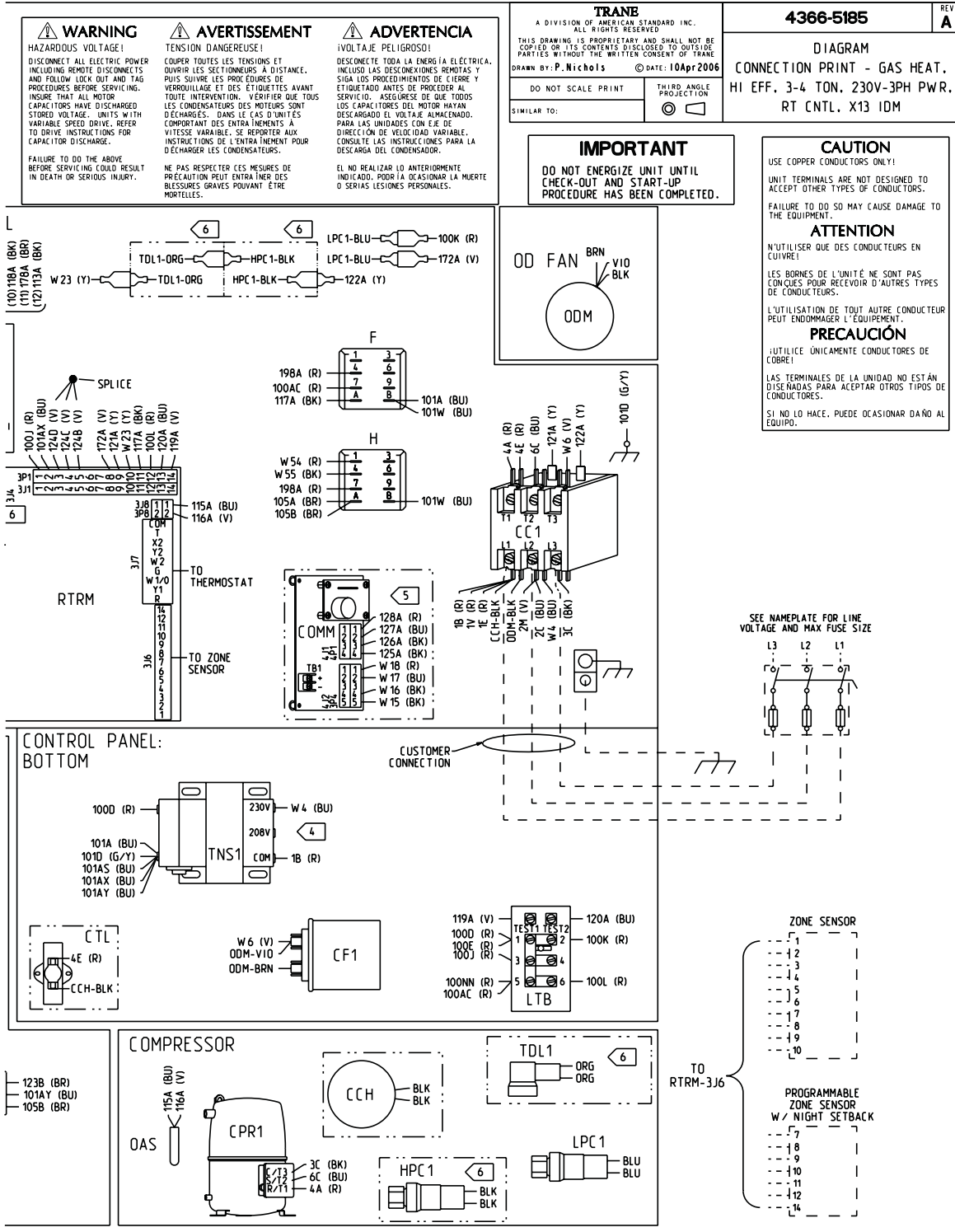


Figure 30. (continued from previous page) 230v/60Hz/3Ph – 3 - 4 Ton Hi Eff / R410A / Direct Drive Indoor Motor – 4366-5185

# Connection Schematics

- 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.
- IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
- THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- CONNECTIONS SHOWN INCLUDE OPTIONAL COMM, ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, SP2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
- CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1 AND TDL1. IF NEITHER OPTION IS INSTALLED, CONNECT WIRE W23 TO WIRE 122A. IF EITHER OR BOTH OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN.
- OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
- (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.

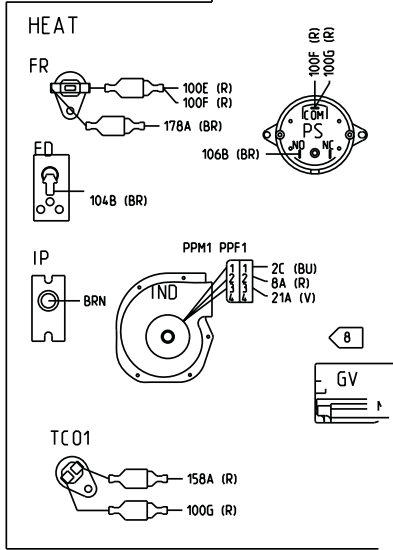
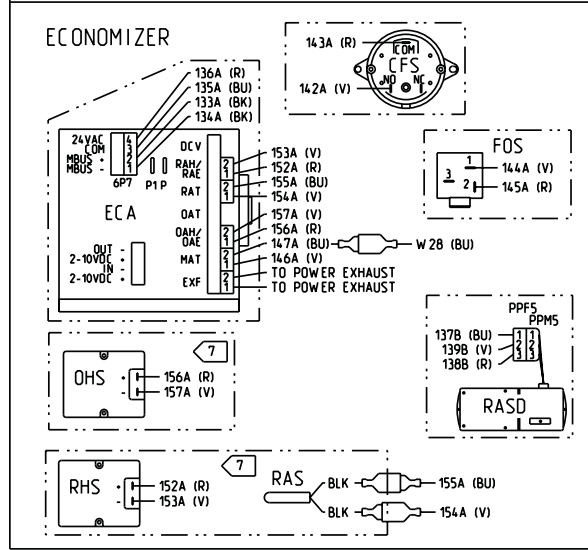
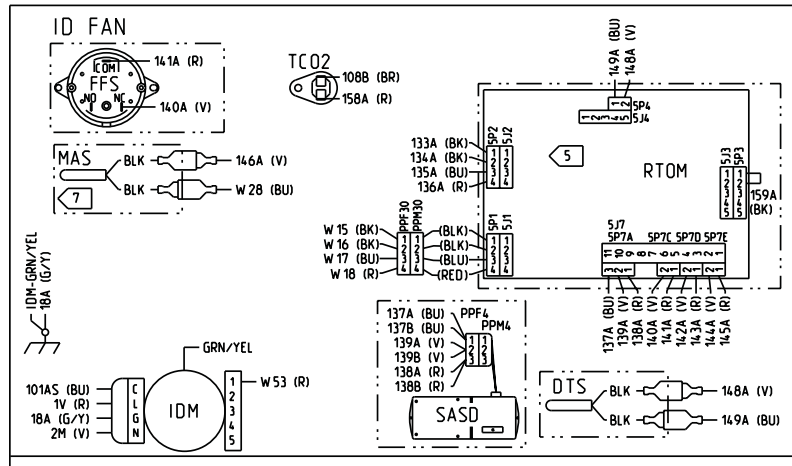
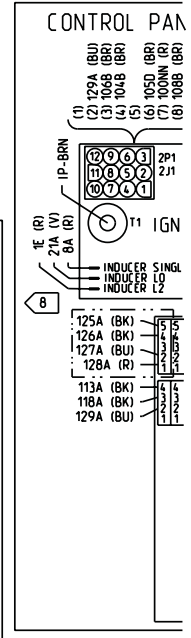
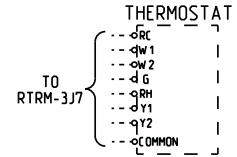


Figure 31. 230v/60Hz/3Ph – 5 Ton R410A / Hi Eff / Direct Drive Indoor Motor – 4366-5186

# Connection Schematics

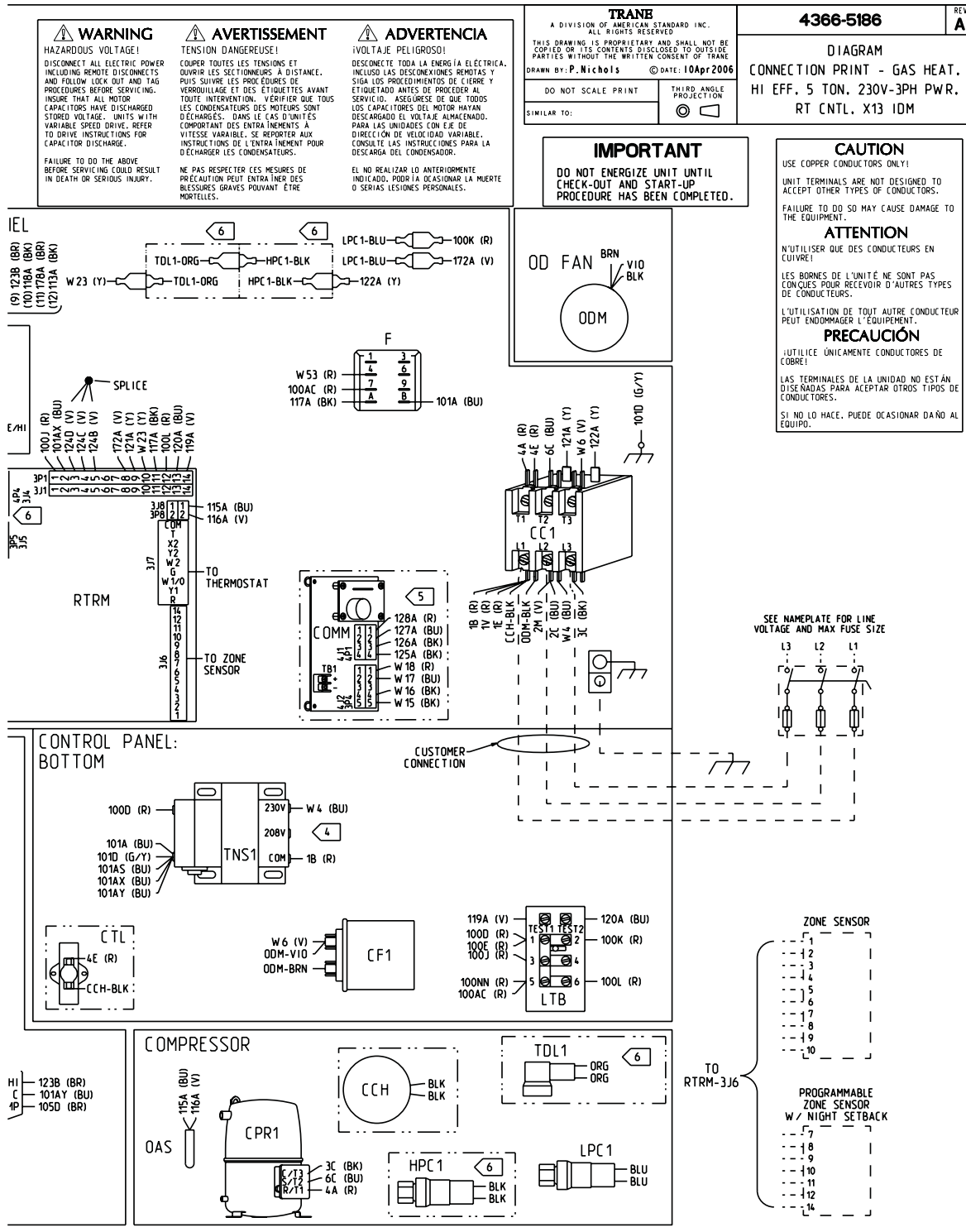


Figure 31. (continued from previous page) 230v/60Hz/3Ph – 5 Ton R410A / Hi Eff / Direct Drive Indoor Motor – 4366-5186







# Connection Schematics

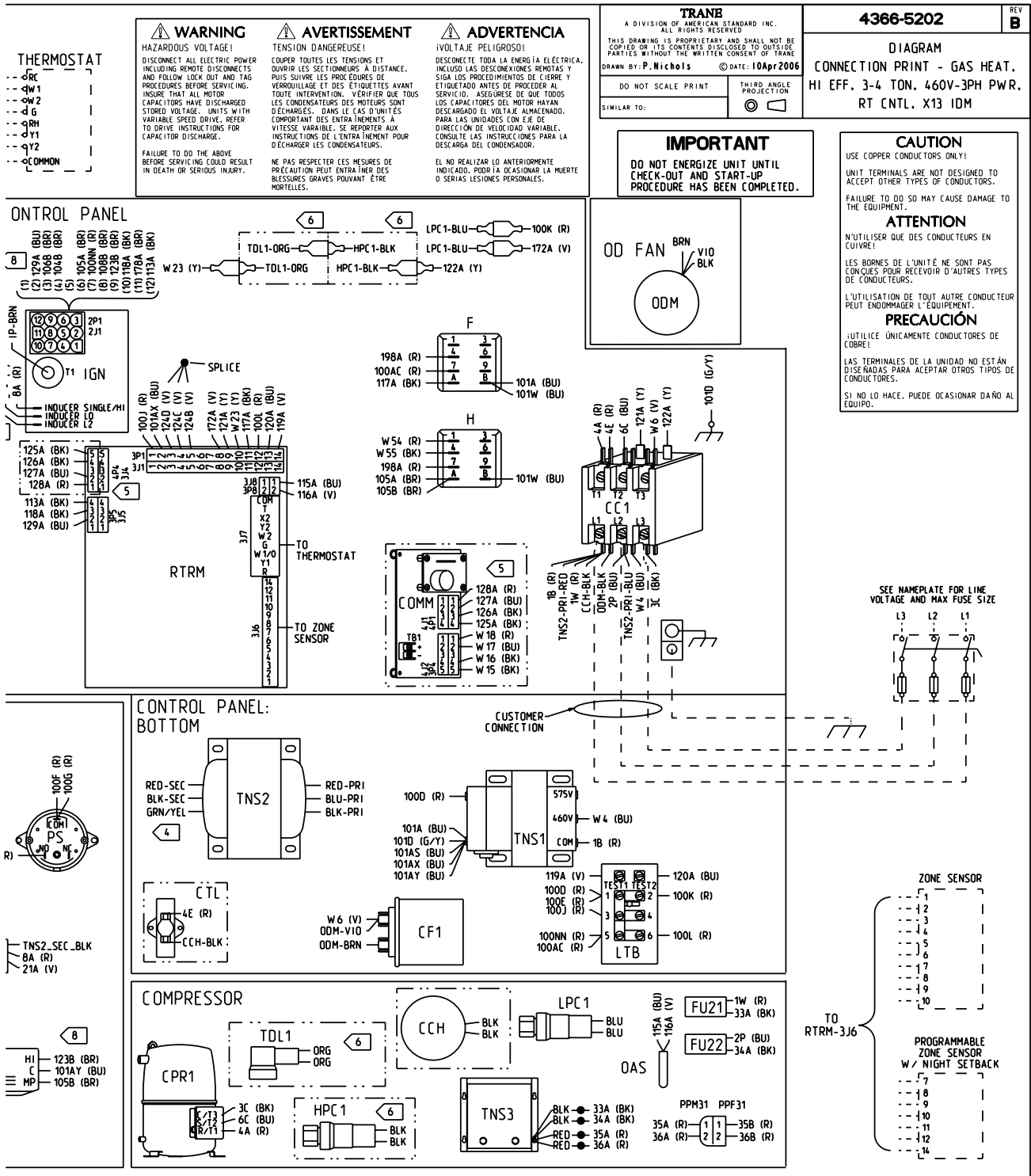


Figure 32. (continued from previous page) 460v/60Hz/3Ph – 3 - 4 Ton R410A / Direct Drive Indoor Motor – 4366-5202

# Connection Schematics

- 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.
- IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105 °C.
- THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- WIRE TNS2-GRN/YEL IS NOT PRESENT IF TNS2 IS AN AUTOTRANSFORMER.
- CONNECTIONS SHOWN INCLUDE OPTIONAL COMM, ECA, AND RTOM. PLUG 3P4 IS NOT CONNECTED UNLESS ECA OR RTOM IS INSTALLED. IF ECA OR RTOM IS INSTALLED WITHOUT COMM, 3P4 IS CONNECTED TO RTRM-3J4. IF ECA IS INSTALLED WITHOUT RTOM, 5P2 IS CONNECTED TO PPF30. REFER TO ACCOMPANYING LITERATURE FOR PROPER CONNECTION/COMBINATION OF OPTIONAL COMPONENTS.
- CONNECTIONS SHOWN INCLUDE OPTIONAL HPC1 AND TDL1. IF NEITHER OPTION IS INSTALLED, CONNECT WIRE W23 TO WIRE 122A. IF EITHER OR BOTH OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN.
- OPTIONAL MAS, RAS, RHS, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
- (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, AND WIRE 129A (IF PRESENT) IS CUT AND ISOLATED.

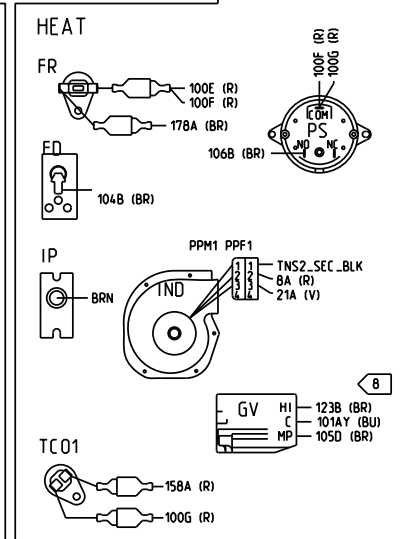
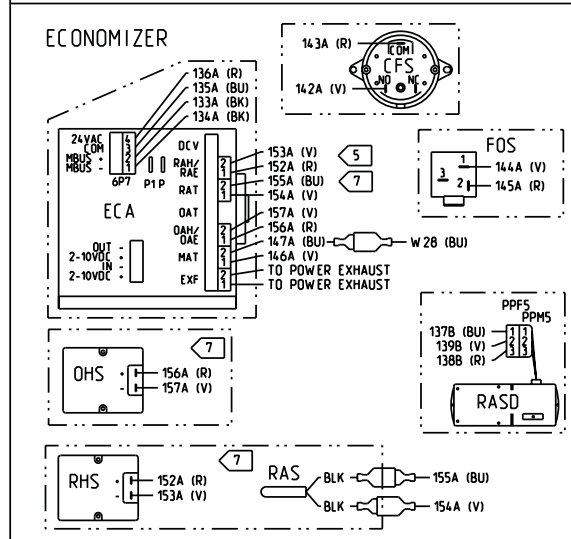
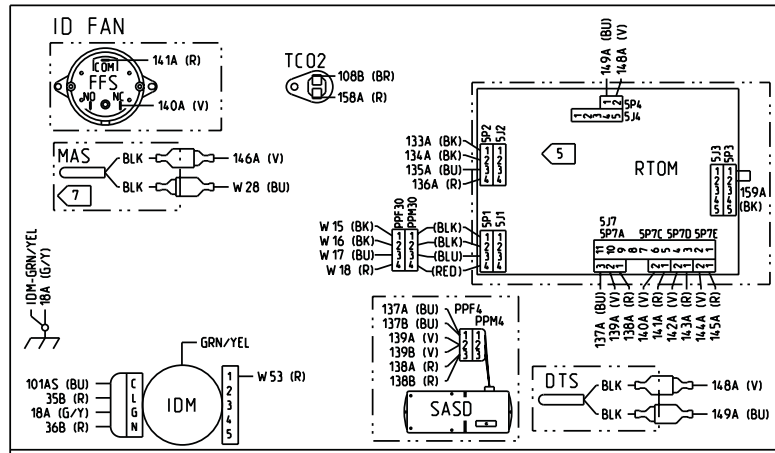
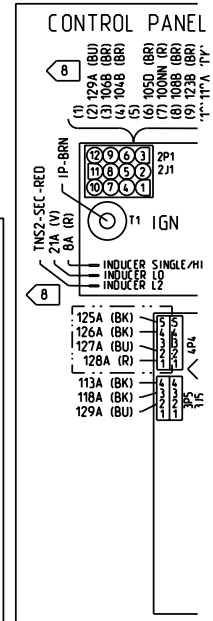
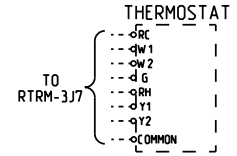


Figure 33. 460v/60Hz/3Ph – 5 Ton R410A / Direct Drive Indoor Motor – 4366-5203

# Connection Schematics

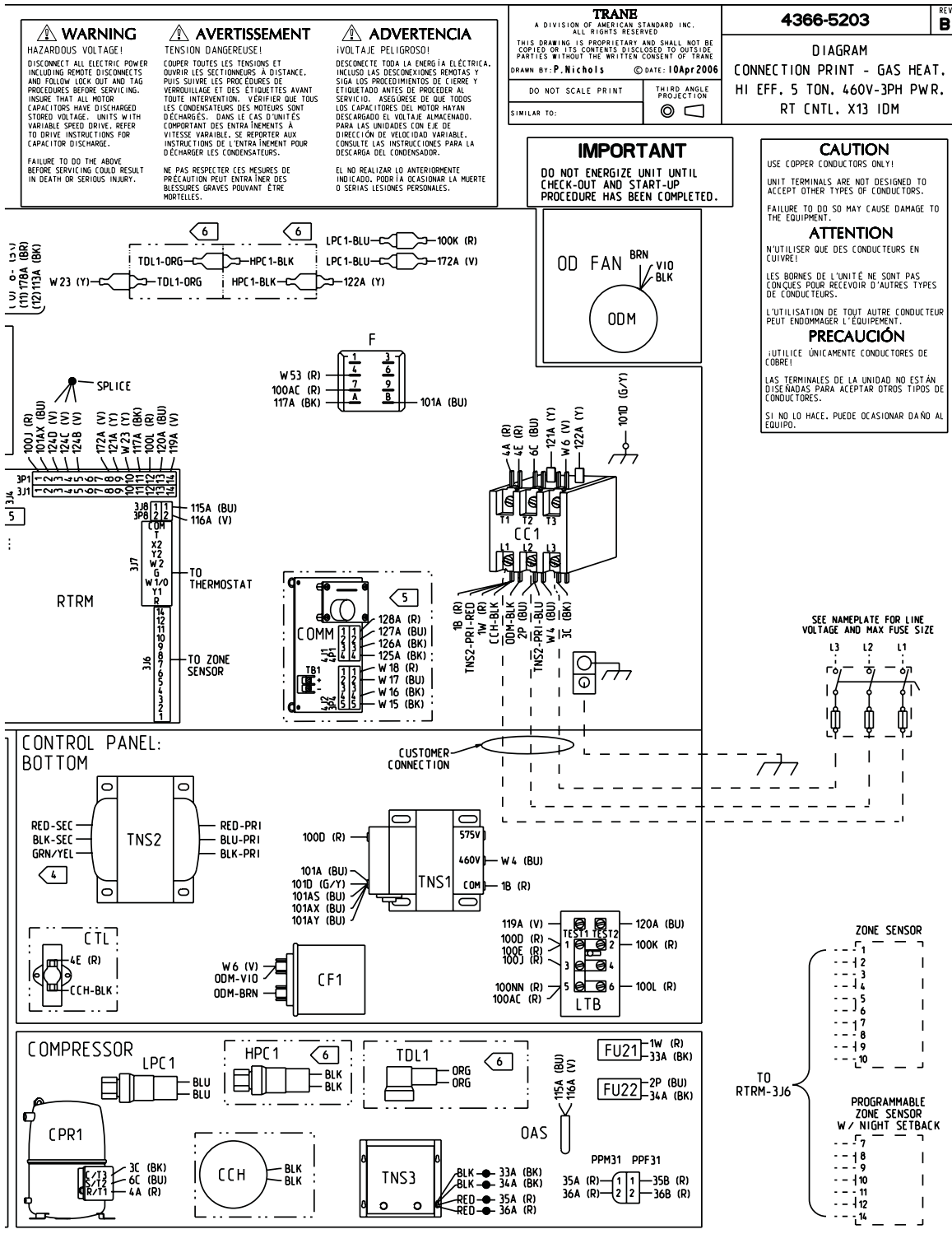


Figure 33. (continued from previous page) 460v/60Hz/3Ph – 5 Ton R410A / Direct Drive Indoor Motor – 4366-5203

# Control Diagram

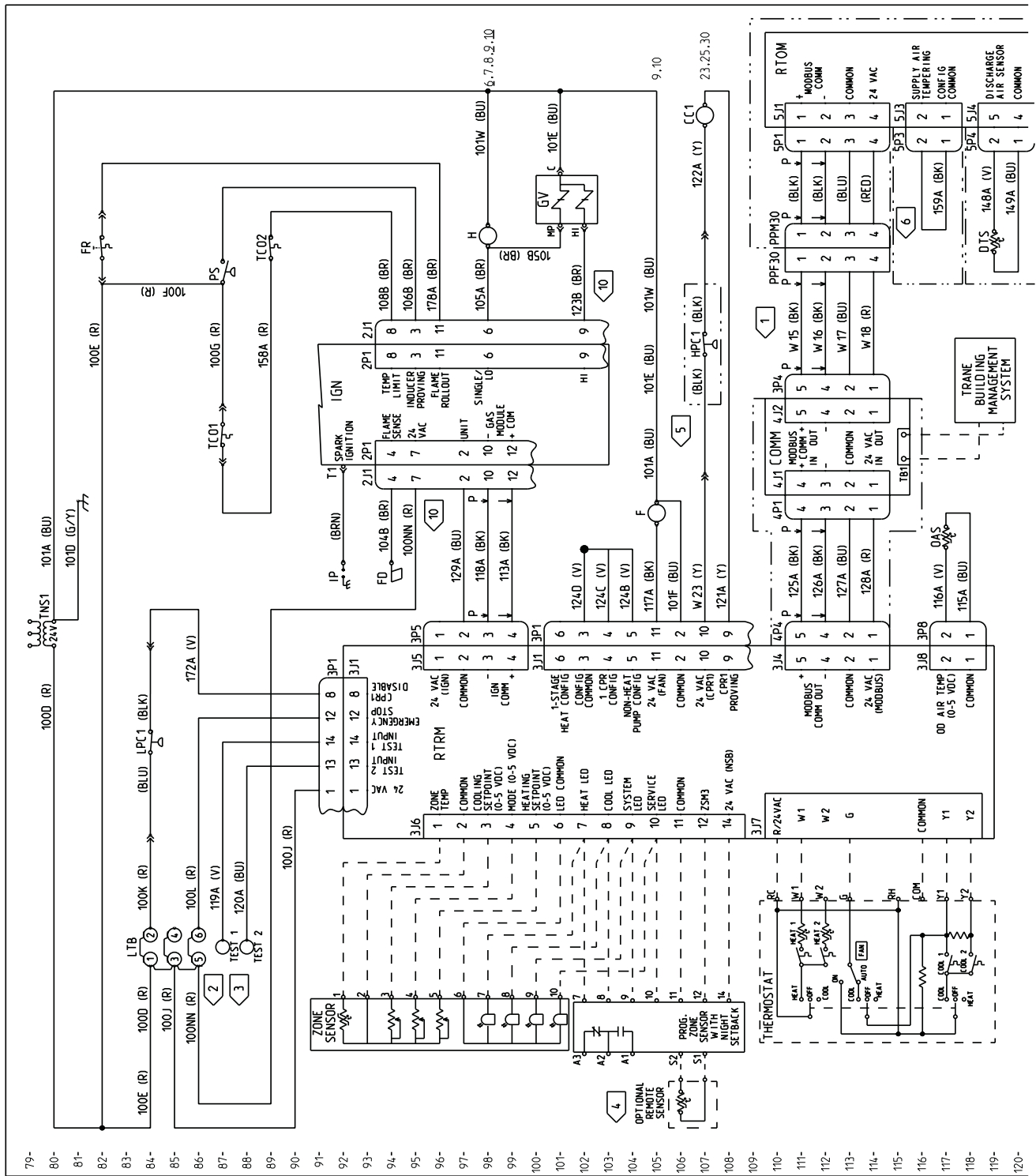


Figure 34. 2 - 5 Ton Single Stage Gas Heat / Direct Drive – 4366-1006

# Control Diagram

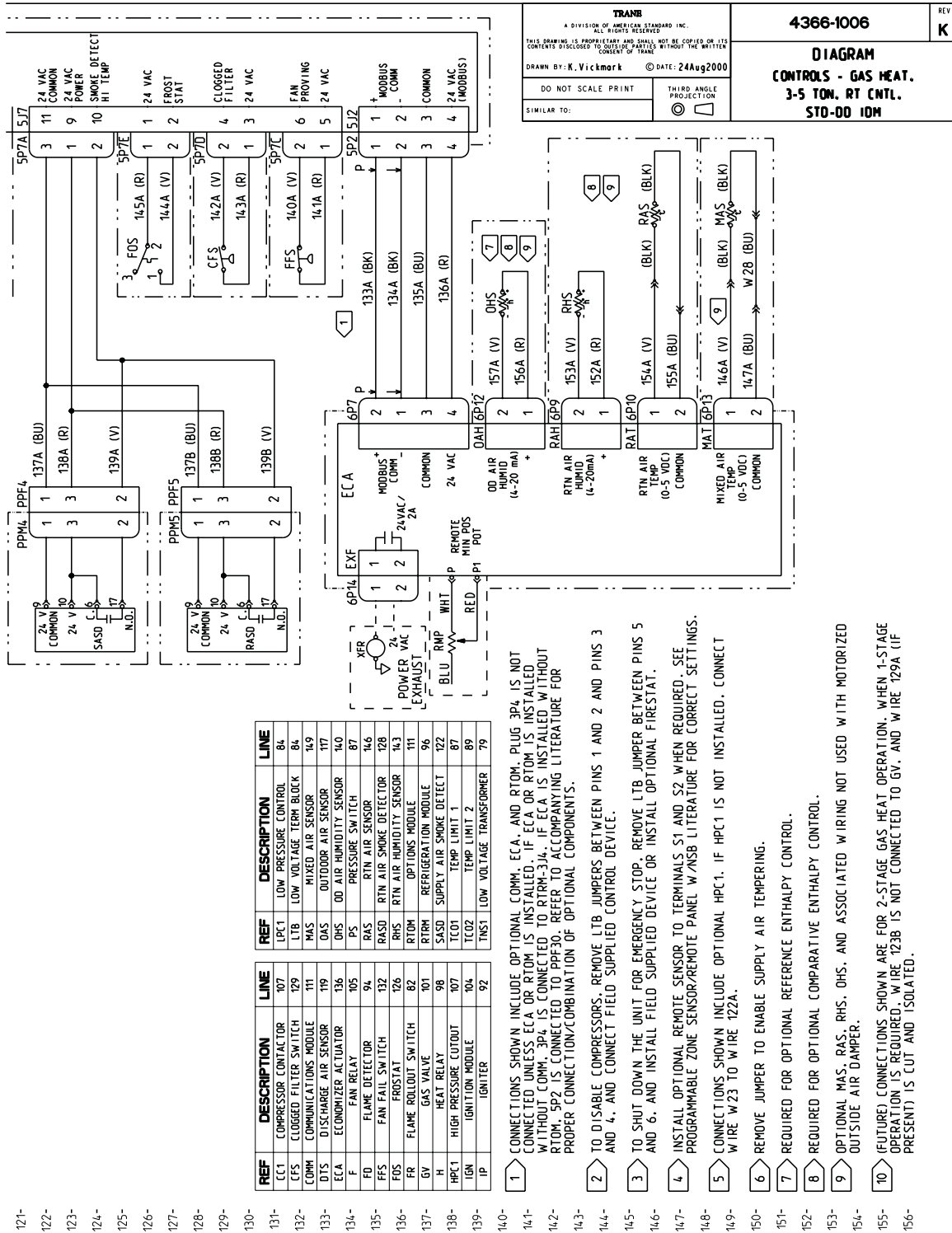


Figure 34. (continued from previous page) 2 - 5 Ton Single Stage Gas Heat / Direct Drive — 4366-1006

# Control Diagram

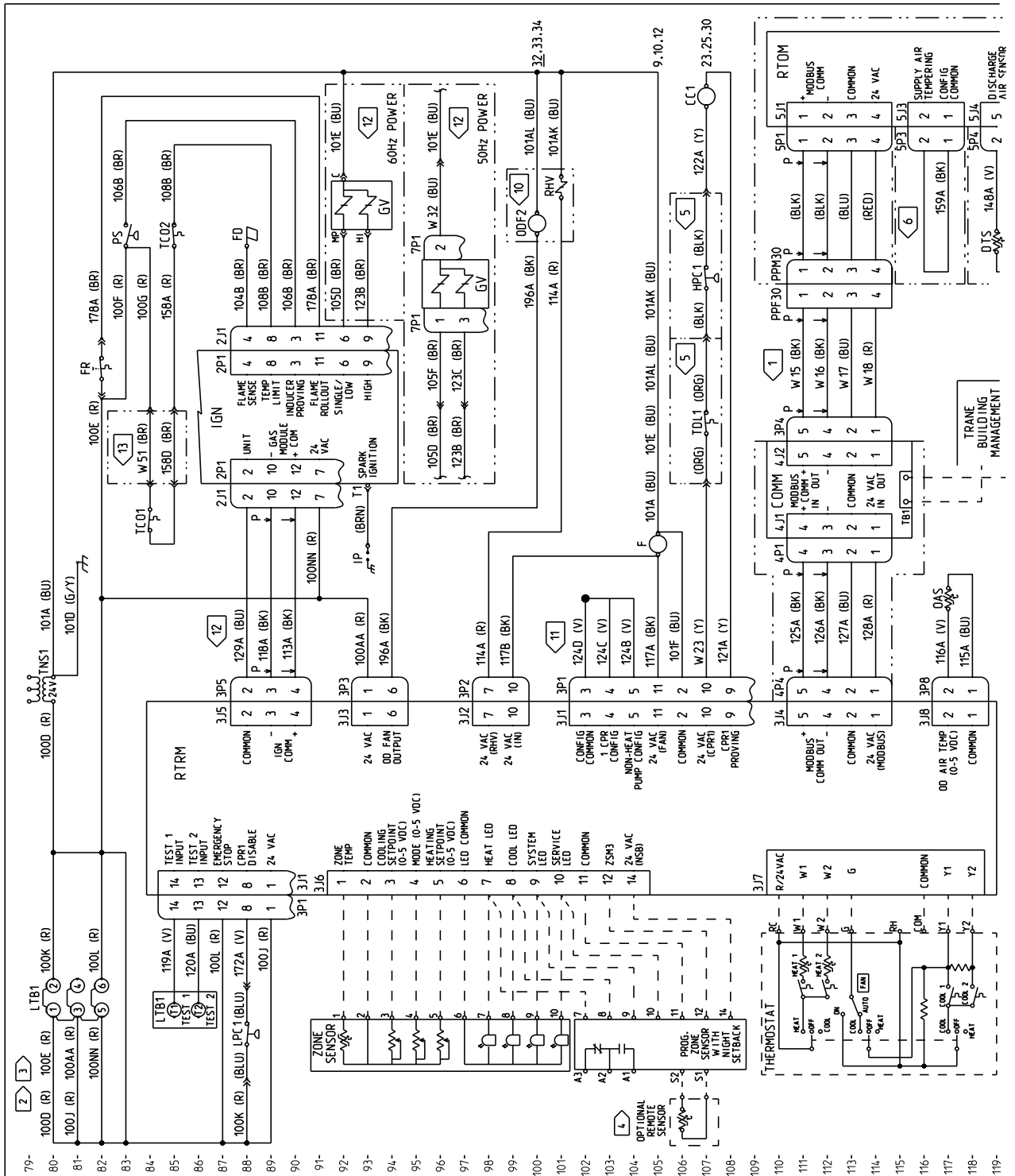


Figure 35. 2 - 5 Ton Single Stage Gas Heat / Belt Drive or Oversize Motor – 4366-1015

# Control Diagram

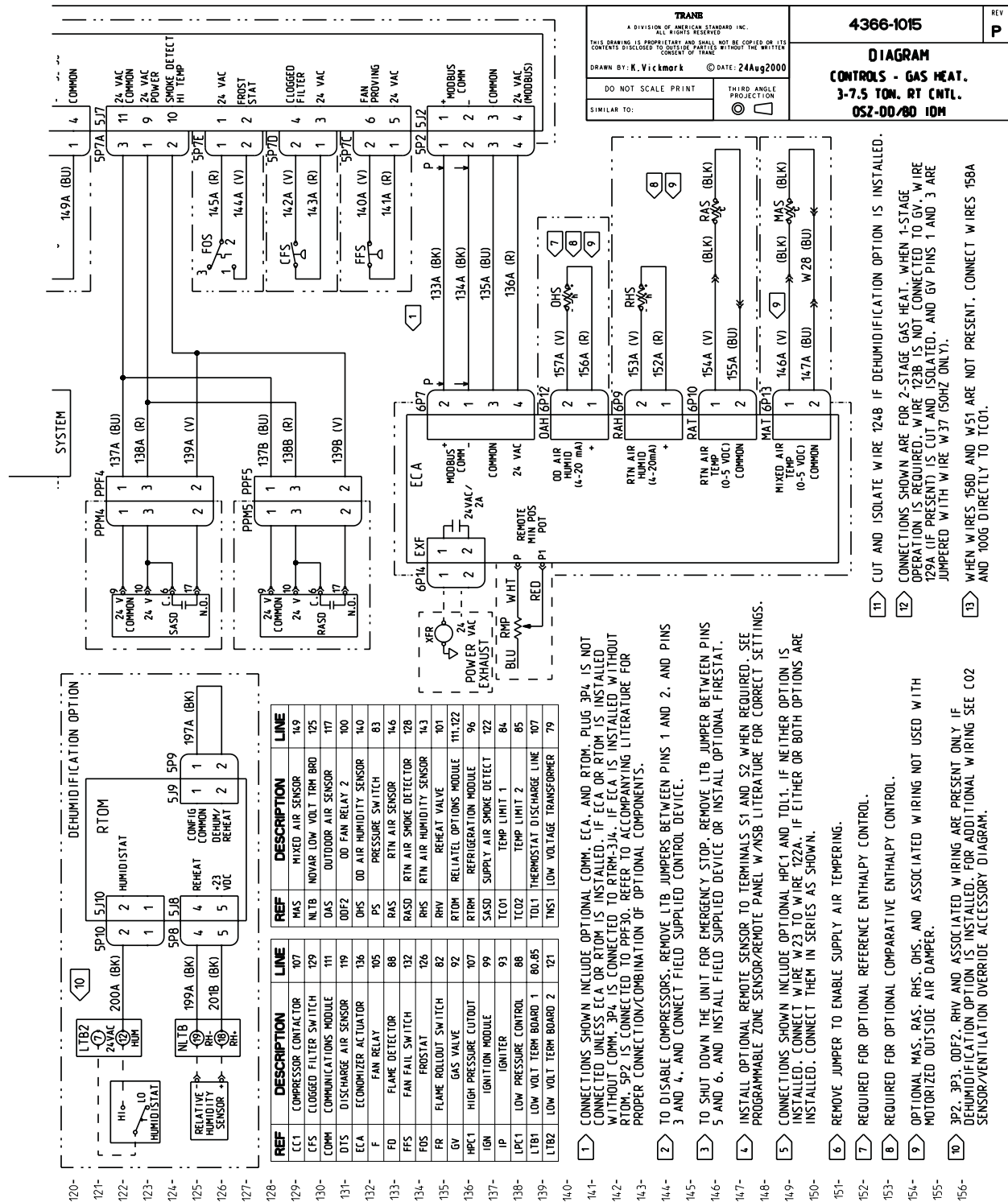


Figure 35. (continued from previous page) 2 - 5 Ton Single Stage Gas Heat / Belt Drive or Oversize Motor — 4366-1015







# Control Diagram

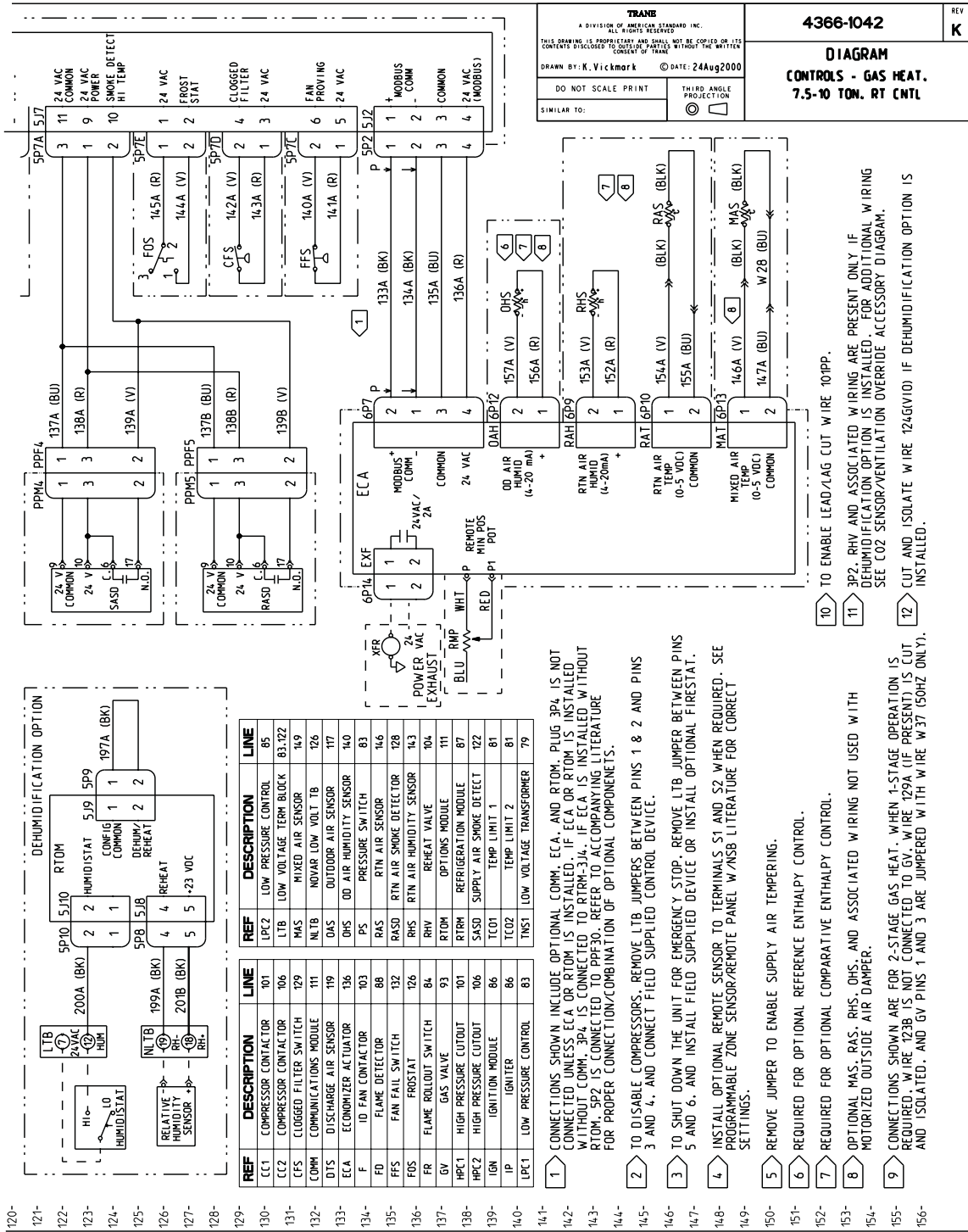


Figure 36. (continued from previous page) 6 - 7.5 Ton Gas Heat / Single Compressor — 4366-1045

# Control Diagram

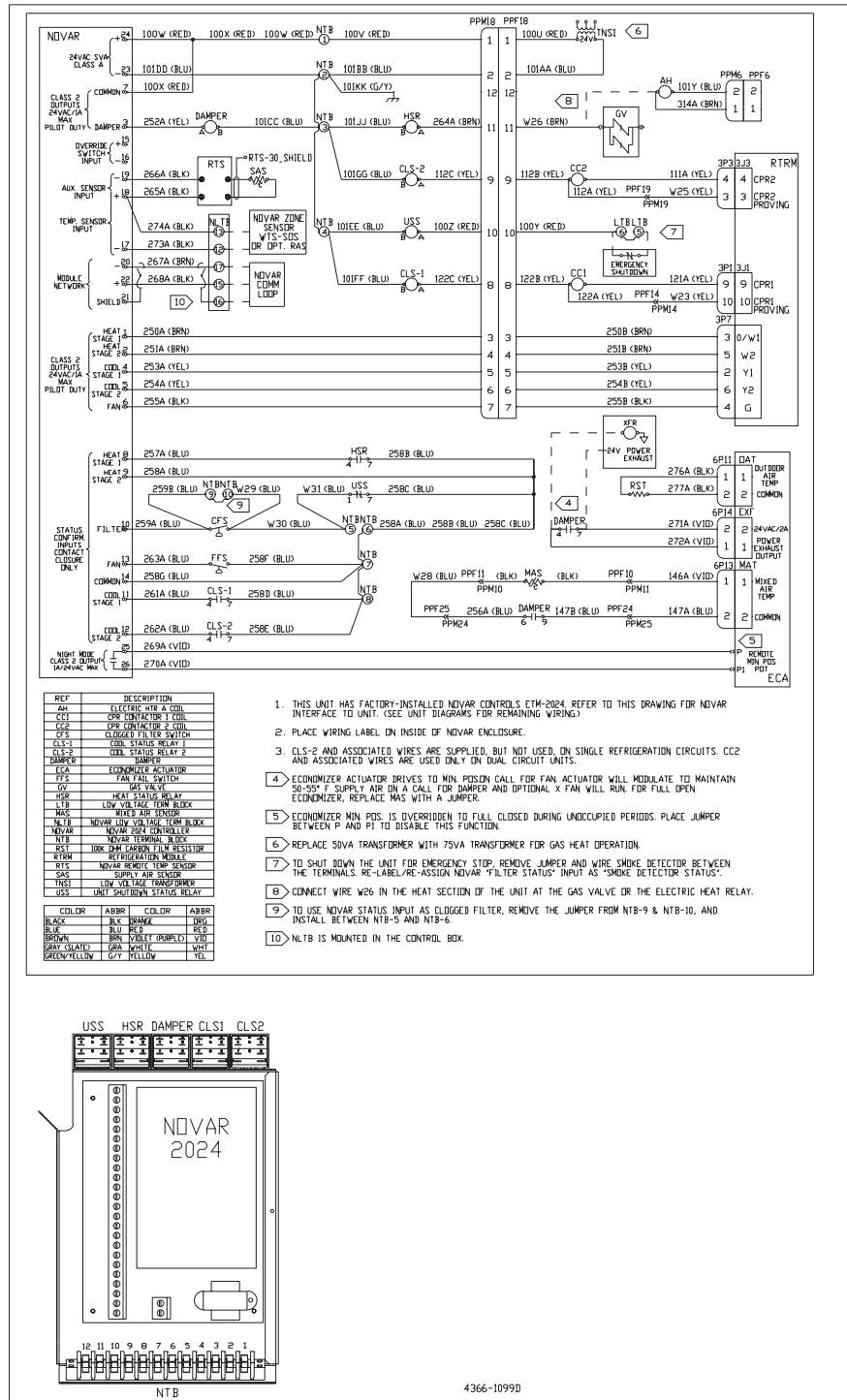


Figure 37. 7.5 - 10 Ton Gas Heat / Dual Compressor — 4366-1039

# Control Diagram

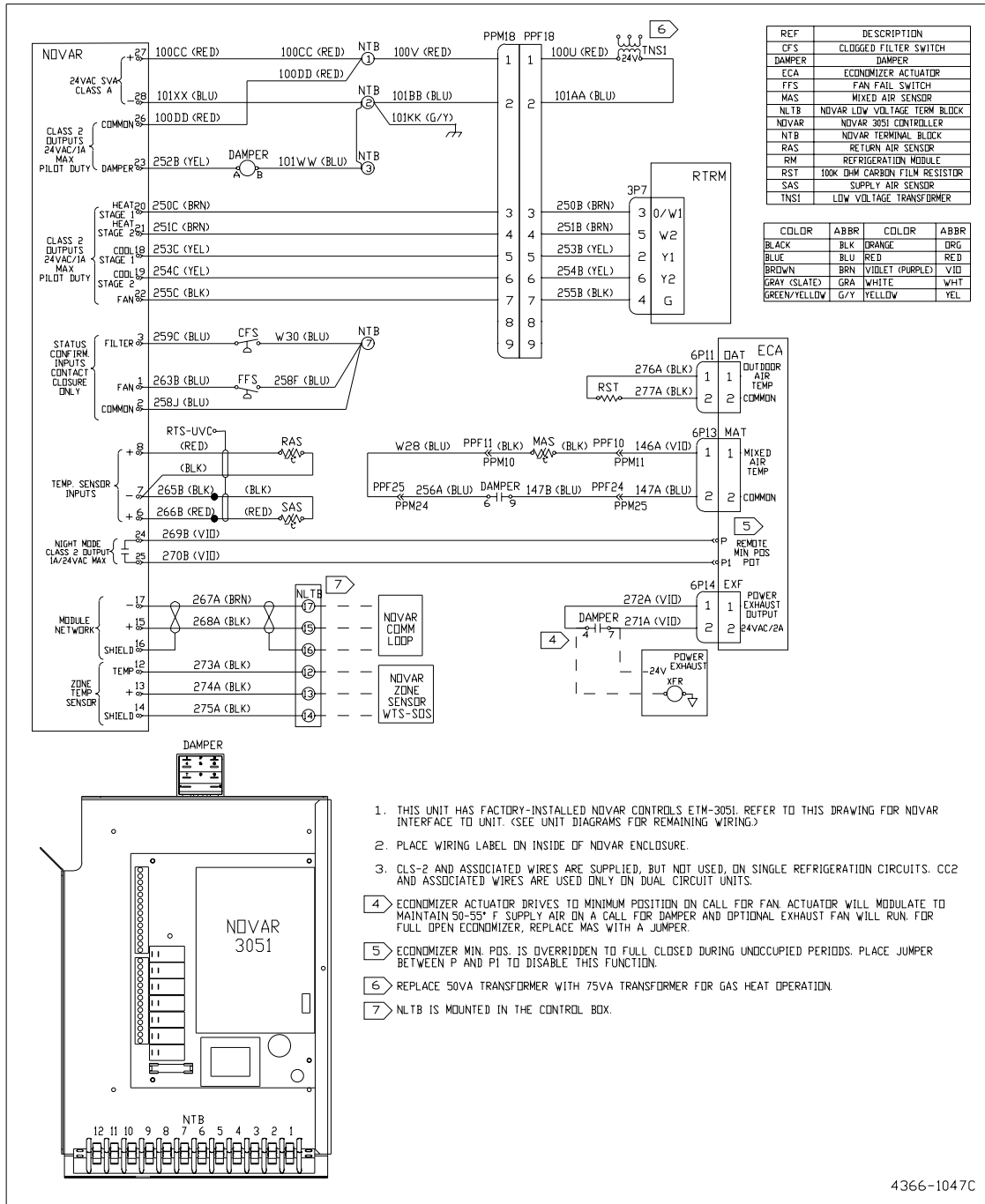


Figure 38. Novar Schematic — 3051

# Control Diagram

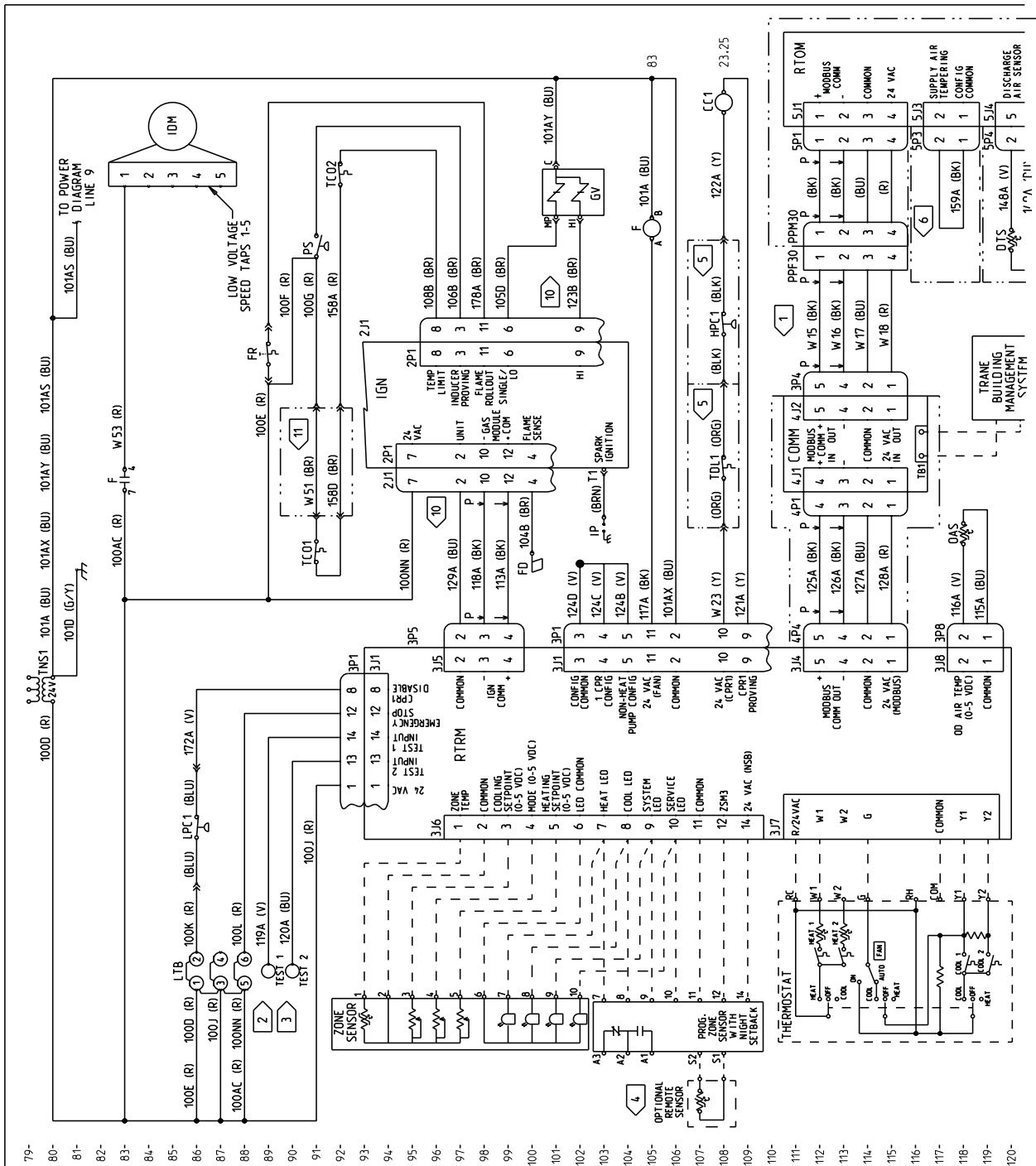


Figure 39. 5 Ton 230v/1Ph / R410A Std Eff – 5 Ton R410A Hi Eff / Direct Drive Indoor Motor – 4366-4703

# Control Diagram

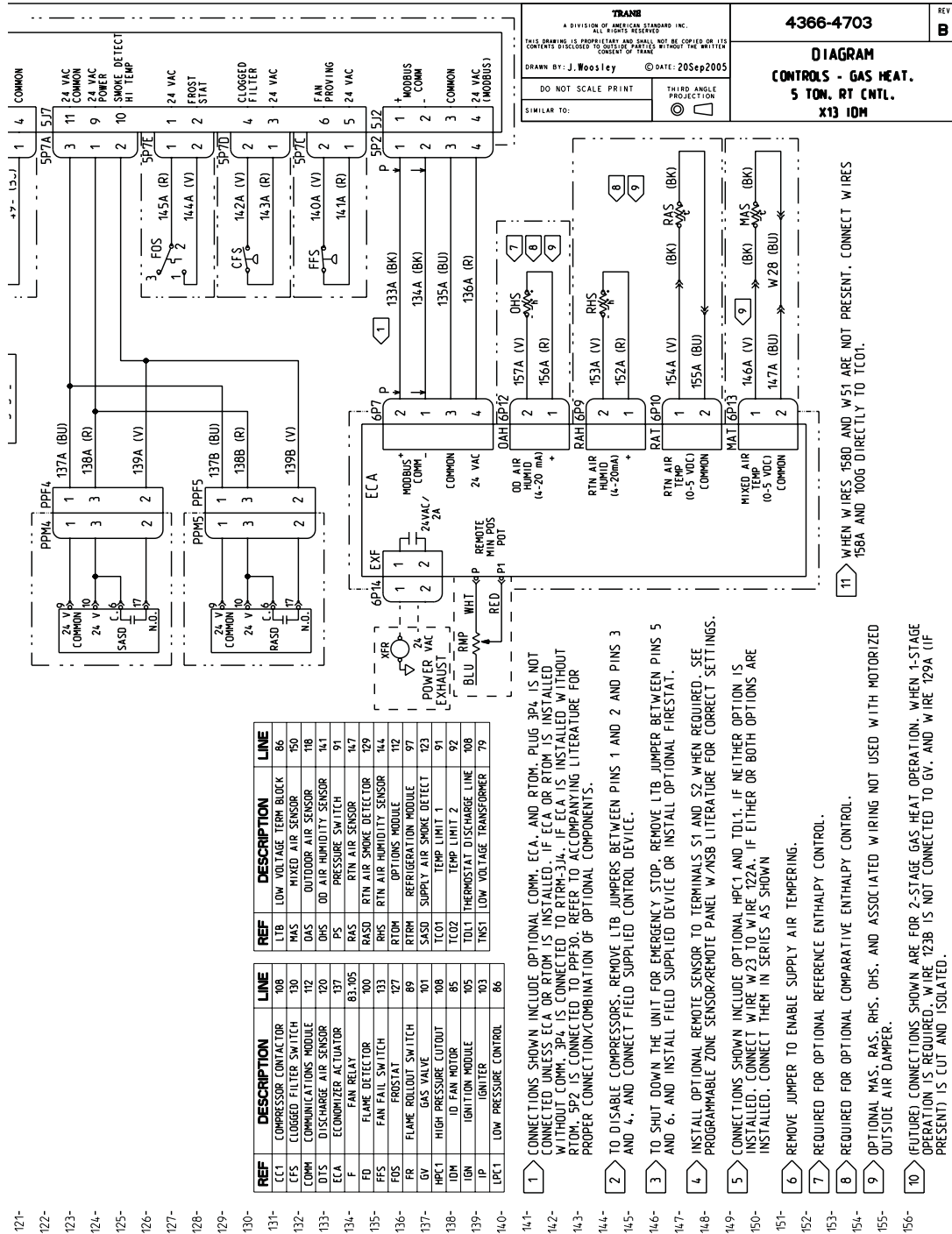


Figure 39. (continued from previous page) 5 Ton 230v/1Ph / R410A Std Eff – 5 Ton R410A Hi Eff / Direct Drive Indoor Motor – 4366-4703

# Control Diagram

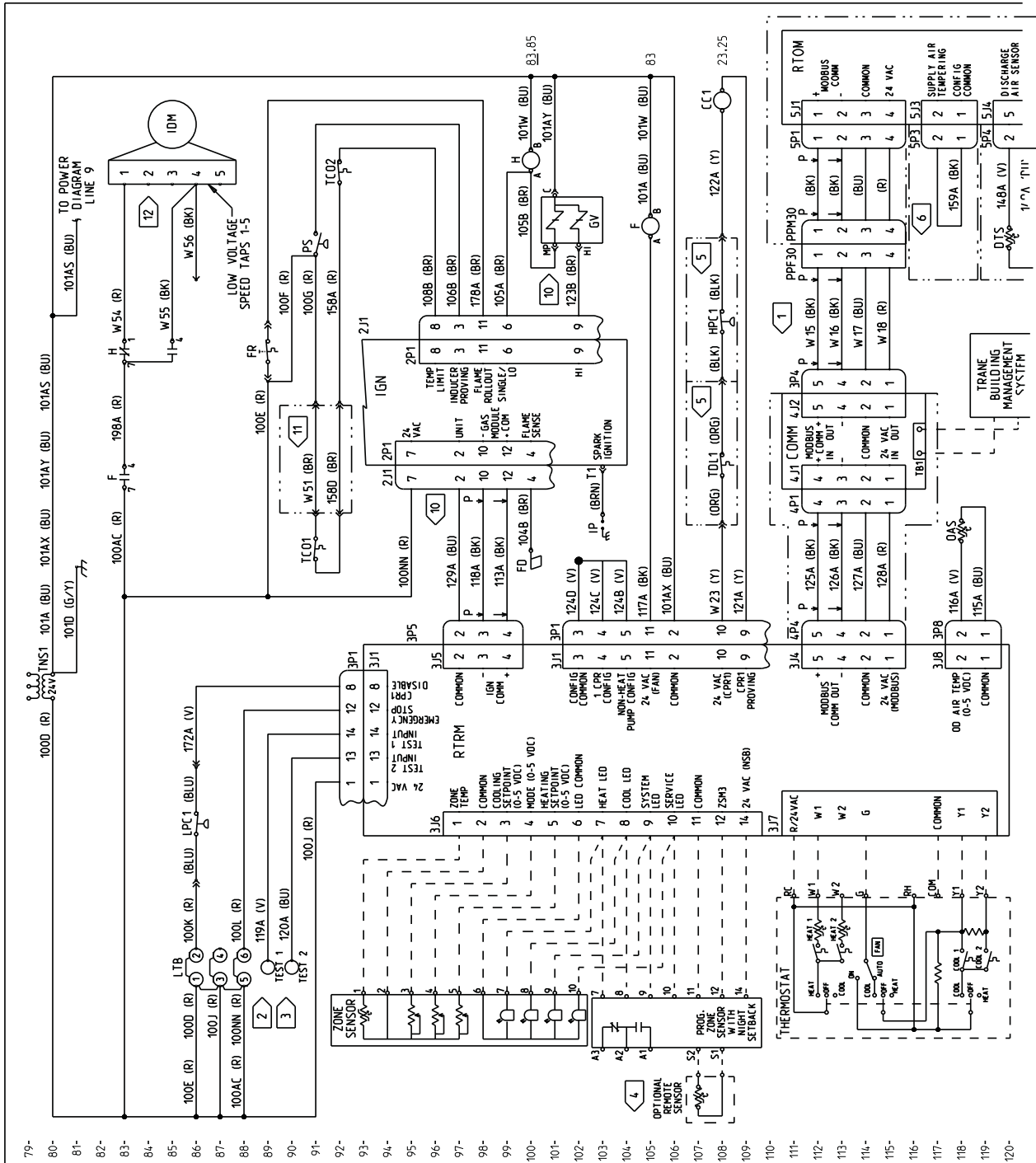


Figure 40. 3 - 4 Ton 230v/1Ph / R410A Std Eff – 3 - 4 Ton R410A Hi Eff / Direct Drive Indoor Motor – 4366-4571

# Control Diagram

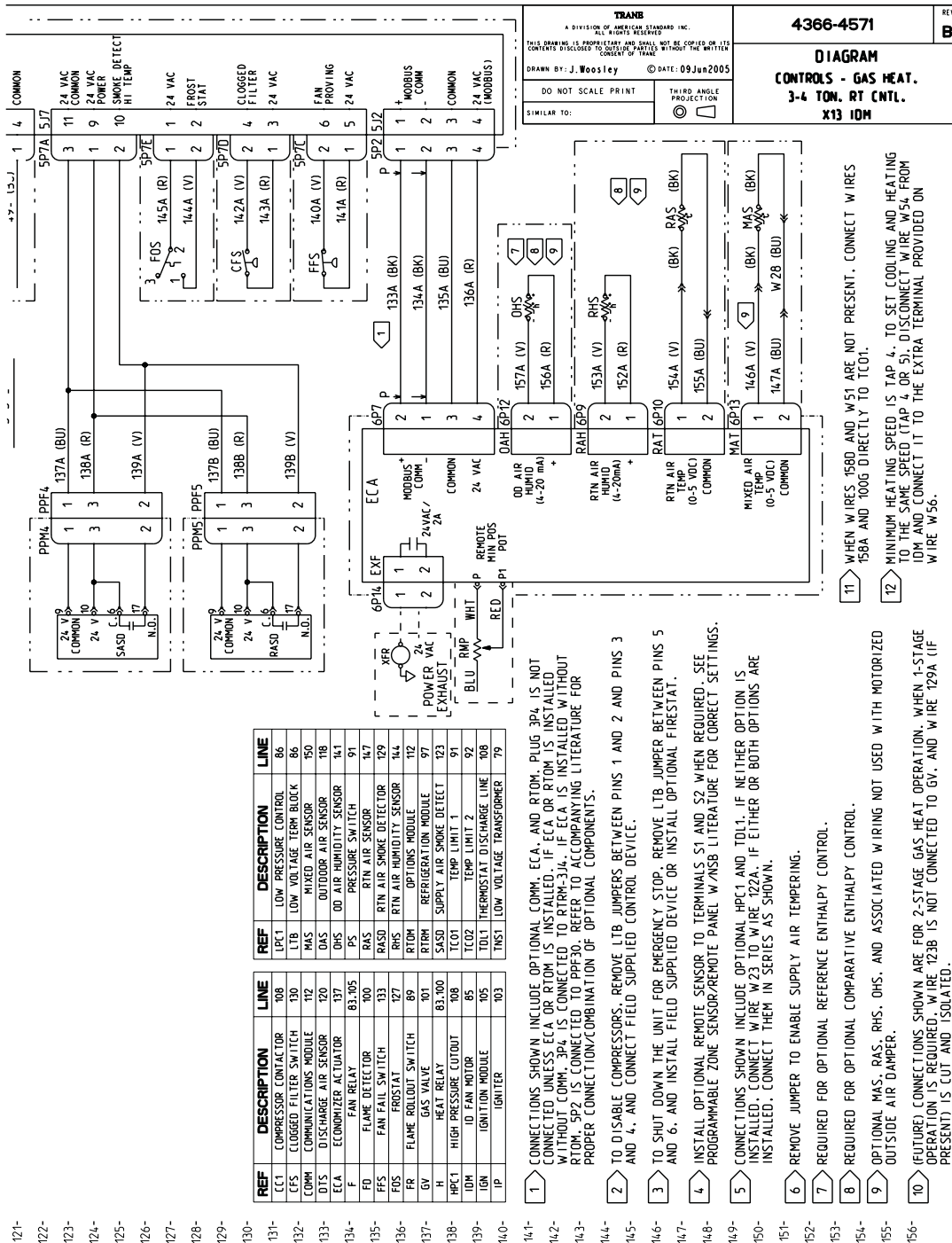


Figure 40. (continued from previous page) 3 - 4 Ton 230v/1Ph / R410A Std Eff – 3 - 4 Ton R410A Hi Eff / Direct Drive Indoor Motor – 4366-4571

# Through the Base Utility Schematic

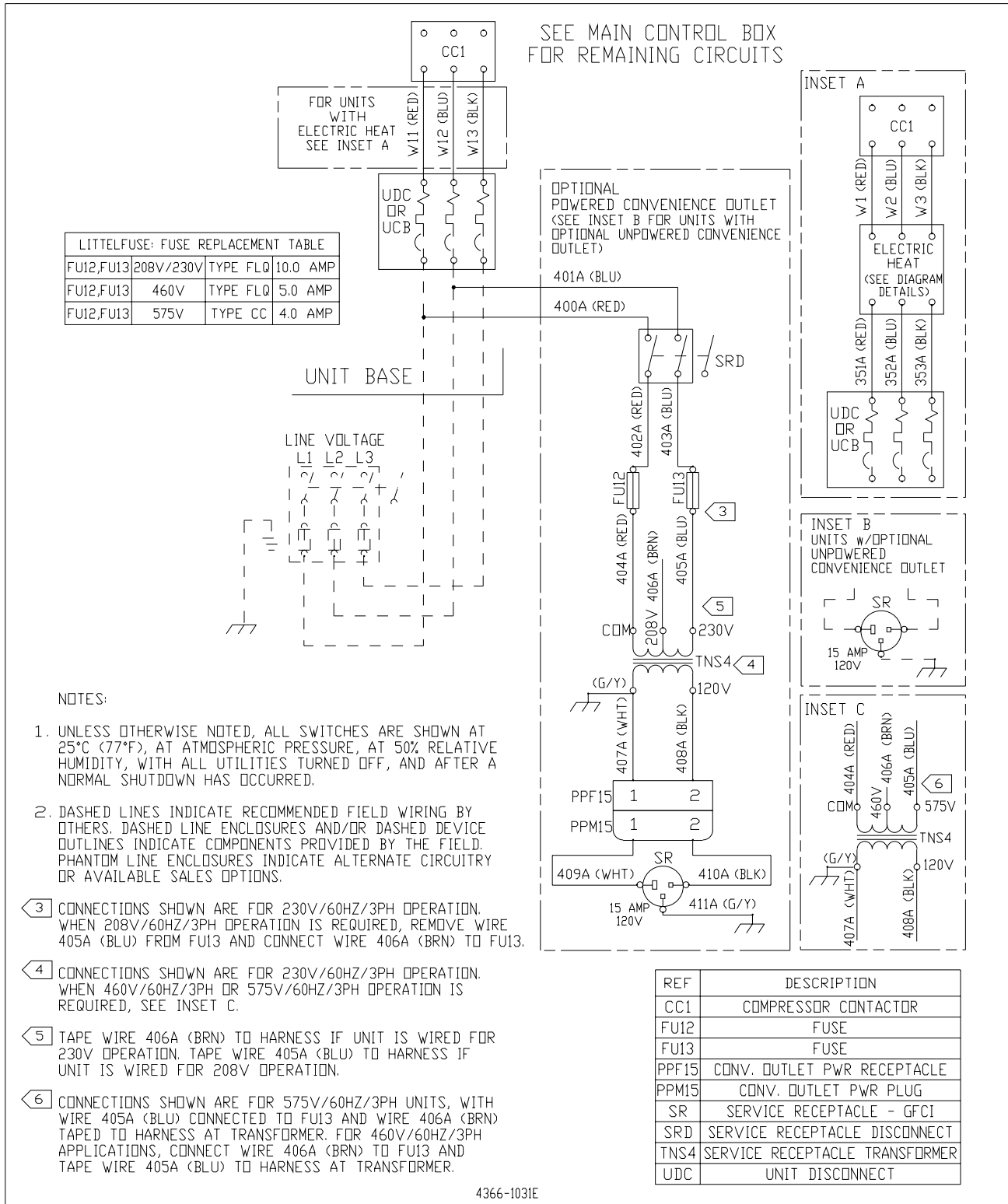
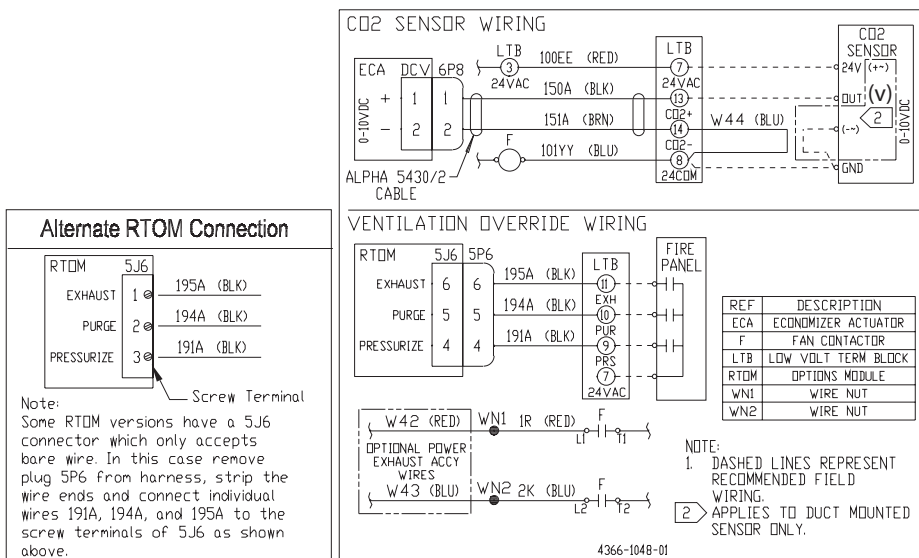


Figure 41. Through the Base Utilities Schematic -



# Through the Base Utility Schematic



**Figure 42. CO2 Sensor / Ventilation Override Schematic**

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Literature Order Number	Y_C-SVE002C-EN
Date	10/06
Supersedes	Y_C-SVE002B-EN (11/04)
Stocking Location	Electronic Only

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