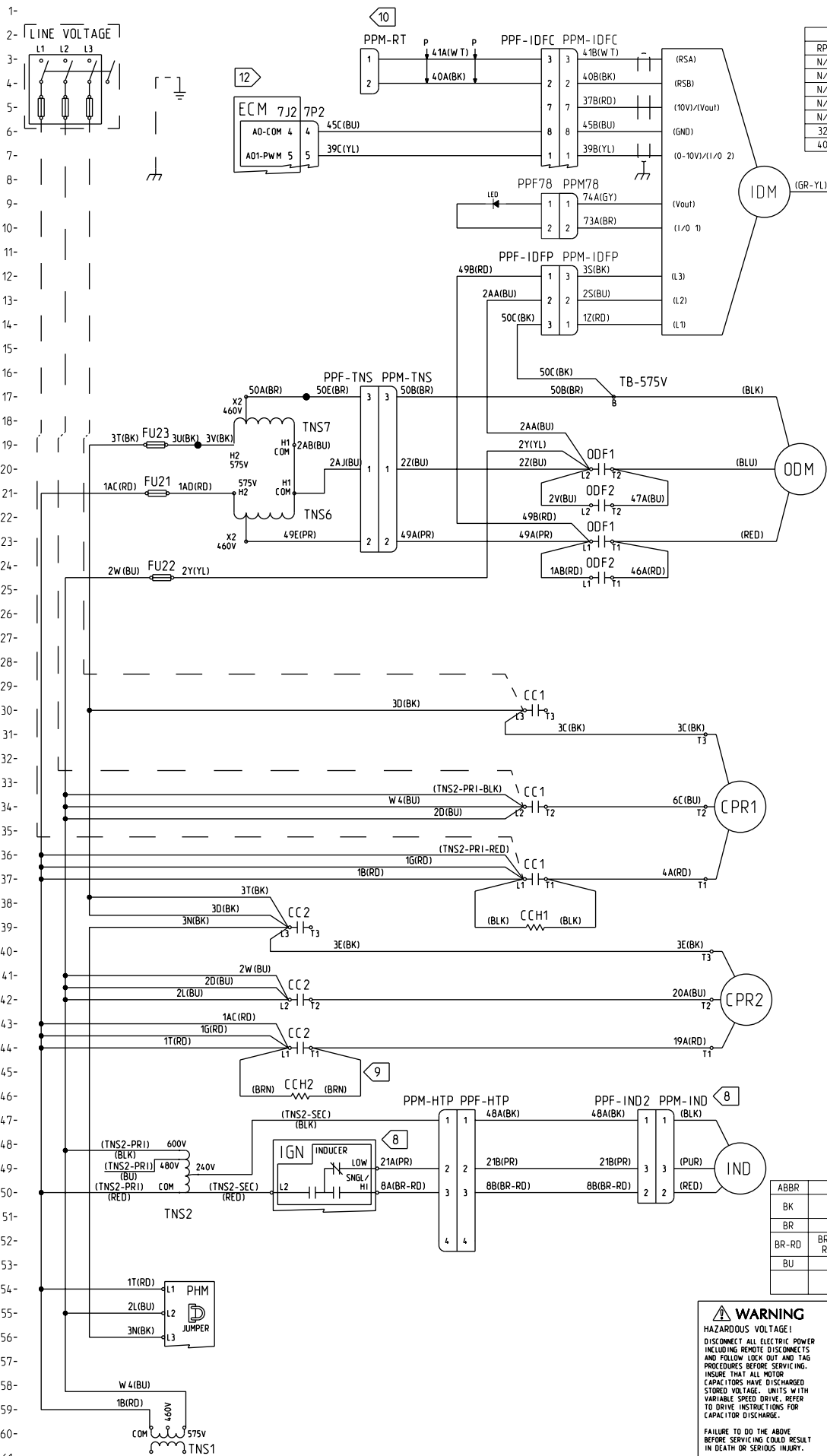




IDM RPM INDICATION					
RPM	VOLT	RPM	VOLT	RPM	VOLT
N/A	1.00	465	2.75	976	4.50
N/A	1.25	544	3.00	1044	4.75
N/A	1.50	630	3.25	1115	5.00
N/A	1.75	716	3.50	1203	5.25
N/A	2.00	775	3.75	1253	5.50
325	2.25	845	4.00	1312	5.75
402	2.50	912	4.25	1368	6.00

REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONT 1	30,34,37,114
CC2	COMPRESSOR CONT 2	39,42,44,118
CCH1	CRANKCASE HTR 1	39
CCH2	CRANKCASE HTR 2	46
COF	CONDENSATE OVERFLOW	86
COFR	COF RELAY	86,89
COFTD	COF TIME DELAY	86
CPR1	COMPRESSOR 1	34
CPR2	COMPRESSOR 2	42
ECA	ECONOMIZER ACTUATOR	124
ECM	ECM ENGINE BOARD	6,107
FD	FLAME DETECT	97
FOS	FROSTAT	114
FR	FLAME ROLLOUT SWITCH	94
FU21	TNS6 & TNS7 FUSE	21
FU22	TNS6 & TNS7 FUSE	24
FU23	TNS6 & TNS7 FUSE	19
GV	GAS VALVE	98
HPC1	HIGH-PRESS CUTOUT 1	114
HPC2	HIGH-PRESS CUTOUT 2	117
IDM	ID FAN MOTOR	8
IGN	IGNITION MODULE	49,94
IND	INDUCER MOTOR	49
IP	IGNITOR	98
LED	LIGHT EMITTING DIODE	9
LPC1	LOW-PRESS CUTOUT 1	114
LPC2	LOW-PRESS CUTOUT 2	118
MAS	MIXED AIR SENSOR	121
OAS	OD AIR SENSOR	144
ODF1	OD FAN CONTACTOR 1	20,23,116
ODF2	OD FAN CONT 2	21,24,120
ODM	OD FAN MOTOR	20
PHM	PHASE MONITOR	54,89
PLSD	PLENUM SMOKE DETECTOR	81
PS	PRESSURE SWITCH	92
RASD	RTN AIR SMOKE DETECTOR	81
SASD	SUPPLY AIR SMOKE DETECT	86
TB-575V	575V TERM BLOCK	17
TB-COM	COMMON TERM BLOCK	80
TCO1	TEMP LIMIT SWITCH 1	92,96
TCO2	TEMP LIMIT SWITCH 2	103
TDL1	THERMO DISCHARGE LINE 1	114
TDL2	THERMO DISCHARGE LINE 2	117
TNS1	LOW-VOLT TRANSFORMER	59,80
TNS2	INDUCER TRANSFORMER	50
TNS6	IDM & ODM TRANSFORMER	21
TNS7	IDM & ODM TRANSFORMER	19

ABBR	COLOR	ABBR	COLOR	ABBR	COLOR
BK	BLACK	GR-YL	GREEN WITH YELLOW STRIPE	WT	WHITE
BR	BROWN	OR	ORANGE	YL	YELLOW
BR-RD	BROWN WITH RED STRIPE	PR	PURPLE	Y/B	YELLOW WITH BLACK STRIPE
BU	BLUE	RD	RED	V	VIOLET
		O/W	ORANGE WITH WHITE STRIPE	V/W	VIOLET WITH WHITE STRIPE

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

AVERTISSEMENT
TENSION DANGEREUSE!
COUPER TOUTES LES TENSIONS ET COUPER LES SECTIONNEURS A DISTANCE, PUIS SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT TOUTE INTERVENTION. VERIFIER QUE TOUTS LES CONDENSATEURS DES MOTEURS SONT DECHARGES. DANS LE CAS D'UNITES COMPORTANT DES ENTRAÎNEMENTS A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DECHARGER LES CONDENSATEURS.

NE PAS RESPECTER CES MESURES DE PRECAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ETRE MORTELLES.

ADVERTENCIA
¡VOLTAJE PELIGROSO!
DESCONECTE TODA LA ENERGIA ELÉCTRICA, INCLUIDO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.

- NOTES:
- 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.
 - THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- 8 CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. WHEN SINGLE-STAGE GAS HEAT OPERATION IS REQUIRED, WIRE 21A IS NOT CONNECTED TO IGN. WIRE IND-PR IS NOT PRESENT ON A SINGLE-STAGE GAS HEAT UNIT.
- 9 CCH2 LEADS ARE BLACK WITH BROWN TAPE WRAPPED AROUND THE END OF EACH LEAD.
- 10 PLUG PPM-RT IS NOT CONNECTED TO ANYTHING. IT IS ONLY USED FOR FACTORY RUNTEST HOOKUP.
- 12 TO INCREASE/DECREASE VOLTAGE/RPMS (SEE IDM RPM INDICATION TABLE):
A. PUSH AND HOLD THE SET BUTTON FOR 3 SEC. BOARD WILL DISPLAY MOTOR 1 PARAMETER NAME: HI 1.
B. SLOW PUSH SET AGAIN TO DISPLAY THE PARAMETER'S CURRENT VALUE = 7.50 VOLTS.
C. PUSH ON + OR - BUTTON TO ADJUST PARAMETER TO DESIRED VALUE = XXX VOLTS.
D. PUSH AND HOLD SET BUTTON FOR 3 SEC TO "SAVE" THE VALUE. AFTER SAVE IS COMPLETE, HI 1 WILL SHOW AGAIN.
E. AFTER THE VOLTAGE HI 1 IS SUCCESSFULLY CHANGED, THE DISPLAY SEQUENCE WILL BE:
MTR 1 --> XXX --> MTR2 --> 0.00 --> FST1 --> ON --> FST2 --> ON/OFF --> EHEn --> ON/OFF
AND THE MOTOR WILL RAMP UP OR DOWN TO ADJUST TO THE INPUT SIGNAL.

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.

ATTENTION
N'UTILISER QUE DES CONDUCTEURS EN CUivre!
LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.
L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'EQUIPEMENT.

PRECAUCIÓN
¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!
LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.
SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

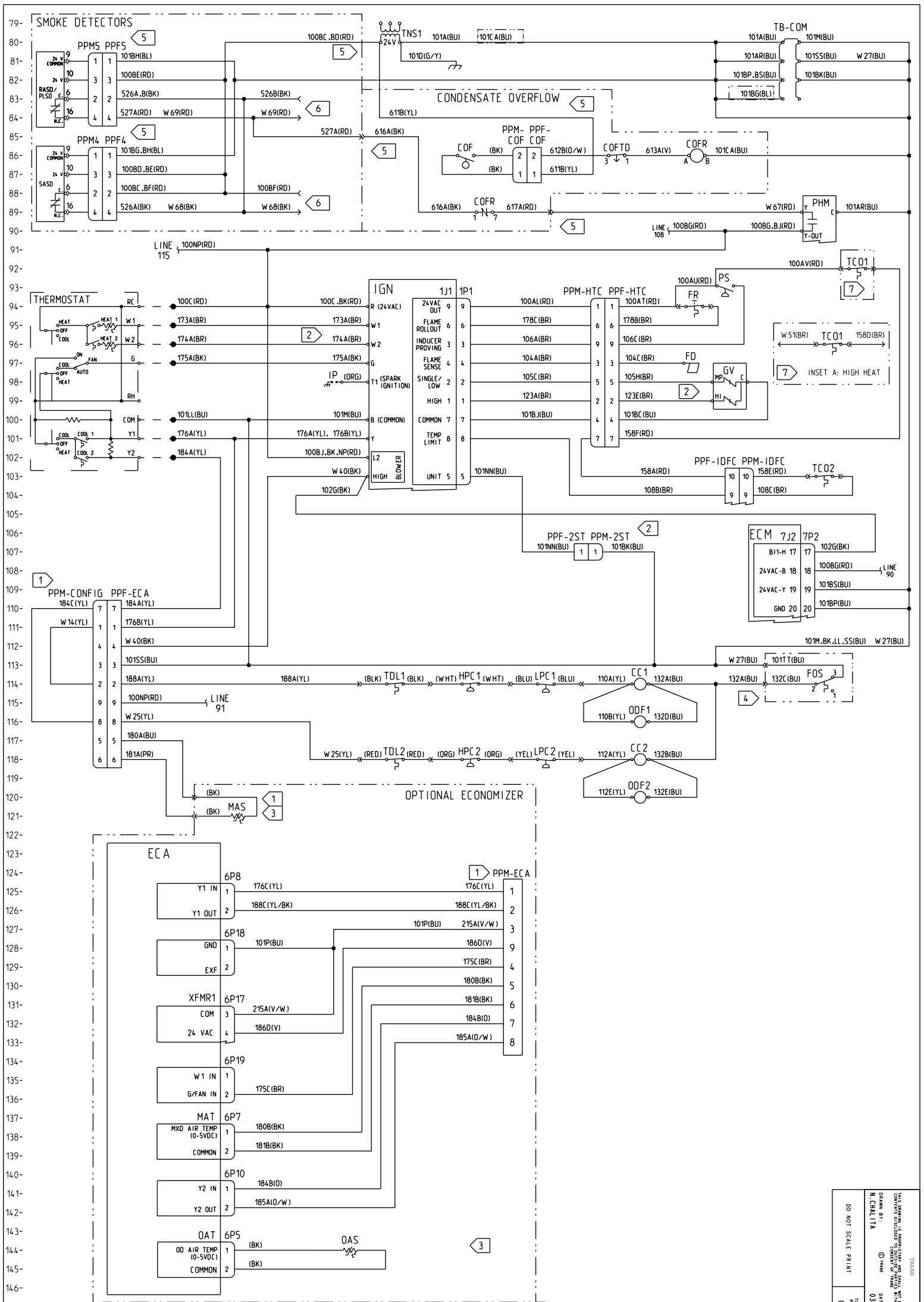
DO NOT SCALE PRINT

THIRD ANGLE PROJECTION

THIS DRAWING IS APPROVED AND RELEASED BY THE MANUFACTURER FOR THE PROJECT AND DATE:
DRAWN BY: N. CHALLITA
DATE: 03/02/2017

12132410
POWER DIAGRAM
YHC-120FW
ELECTROMECHANICAL CONTROLS

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PAGE 2
A



- NOTES:
- TO INSTALL THE OPTIONAL ECONOMIZER, REMOVE PLUG PPM-CONFIG FROM PPF-ECA AND CONNECT PLUG PPM-ECA TO PPF-ECA. ALSO, CONNECT MAS TO WIRES 180A AND 181A.
 - CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. WHEN SINGLE-STAGE GAS HEAT OPERATION IS REQUIRED, REMOVE WIRE 174A FROM IGN. ALSO, REMOVE PLUG PPM-2ST FROM PPF-2ST. ALSO, REMOVE WIRE 123E FROM GV.
 - FOR MOTORIZED OUTSIDE AIR DAMPER, OPTIONAL MAS AND OAS (AND ASSOCIATED WIRING) ARE NOT USED. ALSO.
 - CONNECTIONS SHOWN INCLUDE OPTIONAL FOS. IF FOS IS NOT INSTALLED, CONNECT WIRE W27 TO WIRE 132A.
 - CONNECTIONS SHOWN INCLUDE OPTIONAL SMOKE DETECTORS AND CONDENSATE OVERFLOW. IF ONLY SMOKE DETECTORS (RASD, SASD, OR PLSD) ARE INSTALLED, CONNECT 527A TO W67. IF ONLY CONDENSATE OVERFLOW IS INSTALLED, CONNECT 616A TO TNS1-24VAC. IF NEITHER OPTION IS INSTALLED, CONNECT W67 TO TNS1-24VAC.
 - CONNECTIONS SHOWN INCLUDE OPTIONAL SMOKE DETECTORS. THE FOLLOWING COMBINATIONS ARE ALLOWED: RASD ONLY, SASD ONLY, RASD & SASD, AND PLSD ONLY. IF RASD OR PLSD IS NOT INSTALLED, CONNECT WIRE 526B TO WIRE W69. IF SASD IS NOT INSTALLED, CONNECT WIRE 100BF TO WIRE W68.
 - CONNECTIONS SHOWN FOR UNITS WITH LOW/MEDIUM HEAT. SEE INSET A FOR WIRING ON UNITS WITH HIGH HEAT.