CAUTION

USE COPPER CONDUCTORS ONLY! 75C°

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'ÉQUIPEMENT.

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.

⚠ 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 OUVRIR LES SECTIONNEURS À DISTANCE. PUIS SUIVRE LES PROCÉDURES DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARAIBLE. SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS.

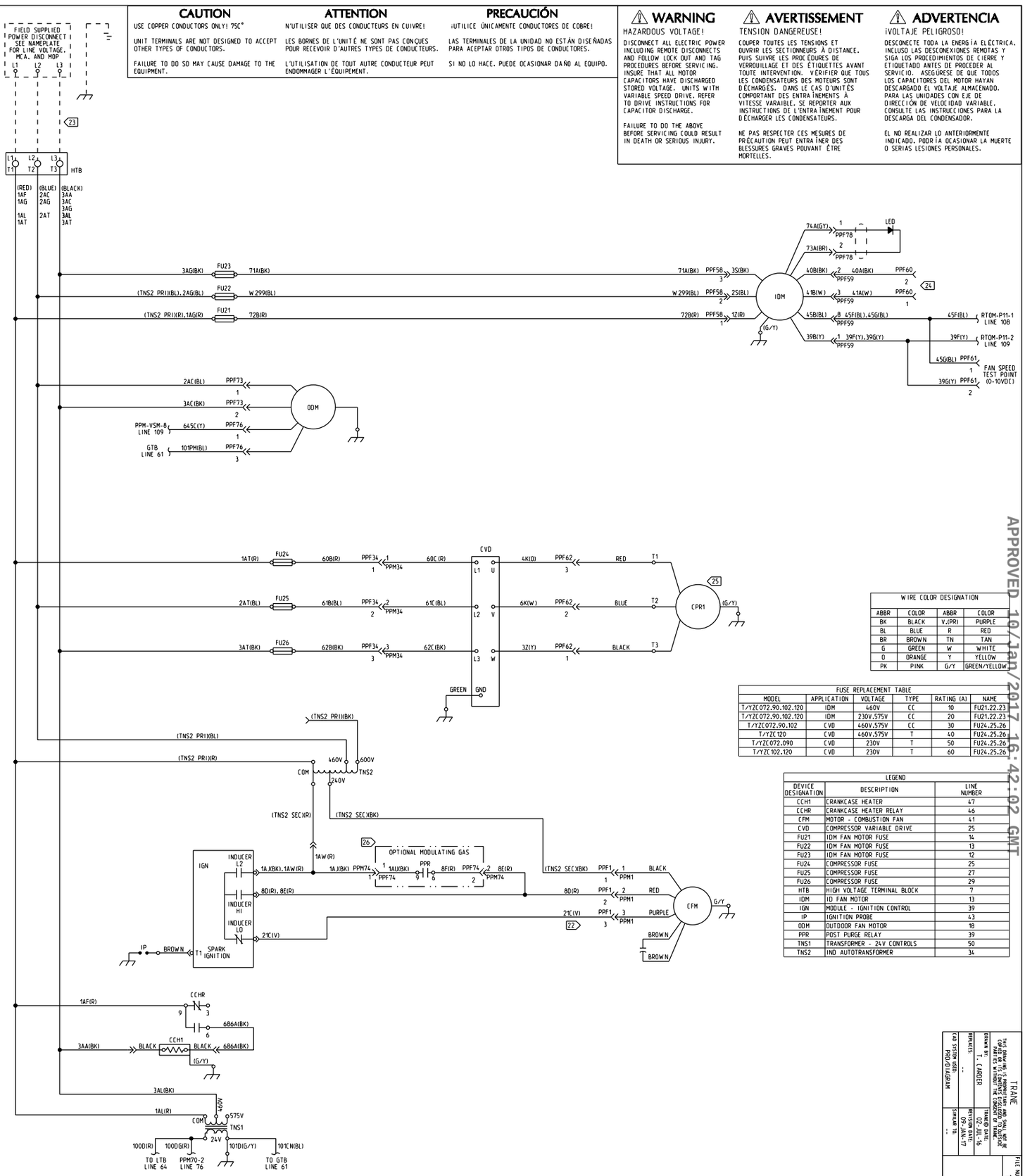
NE PAS RESPECTER CES MESURES DE PRÉCAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES.

⚠ ADVERTENCIA

¡VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE 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.



WIRE COLOR DESIGNATION			
ABBR	COLOR	ABBR	COLOR
BK	BLACK	V.(PR)	PURPLE
BL	BLUE	R	RED
BR	BROWN	TN	TAN
G	GREEN	W	WHITE
O	ORANGE	Y	YELLOW
PK	PINK	G/Y	GREEN/YELLOW

FUSE REPLACEMENT TABLE					
MODEL	APPLICATION	VOLTAGE	TYPE	RATING (A)	NAME
T/YZC072.90.102.120	IDM	460V	CC	10	FU21.22.23
T/YZC072.90.102.120	IDM	230V.575V	CC	20	FU21.22.23
T/YZC072.90.102	CVD	460V.575V	CC	30	FU24.25.26
T/YZC120	CVD	460V.575V	T	40	FU24.25.26
T/YZC072.090	CVD	230V	T	50	FU24.25.26
T/YZC102.120	CVD	230V	T	60	FU24.25.26

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
CCH1	CRANKCASE HEATER	47
CCHR	CRANKCASE HEATER RELAY	46
CFM	MOTOR - COMBUSTION FAN	41
CVD	COMPRESSOR VARIABLE DRIVE	25
FU21	IDM FAN MOTOR FUSE	14
FU22	IDM FAN MOTOR FUSE	13
FU23	IDM FAN MOTOR FUSE	12
FU24	COMPRESSOR FUSE	25
FU25	COMPRESSOR FUSE	27
FU26	COMPRESSOR FUSE	29
HTB	HIGH VOLTAGE TERMINAL BLOCK	7
IDM	ID FAN MOTOR	13
IGN	MODULE - IGNITION CONTROL	39
IP	IGNITION PROBE	43
ODM	OUTDOOR FAN MOTOR	18
PPR	POST PURGE RELAY	39
TNS1	TRANSFORMER - 24V CONTROLS	50
TNS2	IND AUTOTRANSFORMER	34

NOTES:

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. SOLID LINE INDICATES WIRING BY TRANE CO.
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 CONNECTIONS SHOWN FOR OPTIONAL COMM. IF COMM IS NOT INSTALLED. CONNECT COMM-P4 TO RTRM-J4.

5 CONNECTIONS SHOWN FOR OPTIONAL ECONOMIZER. IF ECONOMIZER IS NOT INSTALLED. RTEM-COMM WILL NOT BE CONNECTED. LOW LEAK ECONOMIZERS MAY USE A 23" PENNANT TO CONNECT RTEM-COMM AND RTEM-MAT TO THE RTEM MODULE. PENNANT WIRES ARE 133D(BK). 134D(BK). 135E(BL). 136E(R). 146C(V). AND 147C(BL).

6 INSTALL OPTIONAL REMOTE SENSOR TO PINS S1 & S2 WHEN REQUIRED. SEE PROGRAMMABLE ZONE SENSOR/ REMOTE PANEL WITH NIGHT SETBACK LITERATURE FOR CORRECT SETTINGS.

7 TO ENABLE SUPPLY AIR TEMPERING. CUT WIRE 159A.

8 REQUIRED FOR OPTIONAL REFERENCE ENTHALPY CONTROL.

9 REQUIRED FOR OPTIONAL COMPARATIVE ENTHALPY CONTROL.

10 CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION.
- DISCONNECT WIRE 109E FROM GV1-HI AND CUT WIRE 129A. FOR MODULATING GAS HEAT OPERATION
- DISCONNECT WIRE 109E FROM GV-1 HI.

11 SEE SUPPLEMENTAL LABEL FOR MULTI-ZONE VAV WIRING.

12 ACTUATOR (ECA) ON STANDARD ECONOMIZER ATTACHED TO BACK OF RTEM. ON LOW LEAK ECONOMIZER ECA IS MOUNTED ABOVE RTEM.

13 OPTIONAL MAS. RAS. RHS. OHS SENSORS AND ASSOCIATED WIRING NOT USED WITH MOTORIZED (NON-MODULATING) OR MANUAL OUTSIDE AIR DAMPER.

14 FOR PROPER UNIT TONNAGE PLEASE REFER TO VSM CONFIG TABLE FOR WIRE DESIGNATIONS.

15 FOR PROPER UNIT OPERATION DO NOT REMOVE JUMPERS. TO DISABLE EMERGENCY STOP. REMOVE JUMPER GOING FROM LTB-5 TO LTB-6 AND INSTALL FIELD SUPPLIED DEVICE.

16 FOR MULTI-ZONE VAV OPERATION REMOVE DACR PLUG RTOM-P8B2.

17 FOR 10T CONFIGURATION. WIRES 100CV. 100CW. 100CX. 100CY. 100CZ. & 100DB WILL NOT BE PRESENT.

18 IF WIRES 158D AND W51 ARE NOT PRESENT. CONNECT WIRES 108E AND 225A DIRECTLY TO TC01.

19 FOR ALTERNATE TC01 UPPER LOCATION REFER TO INSET B.

22 CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS OPERATION. WHEN SINGLE-STAGE OPERATION IS REQUIRED. WIRE 21C(V) IS NOT CONNECTED TO IGN.

23 SEE APPLICABLE TBUE SECTION DIAGRAM FOR BALANCE OF CIRCUIT WHEN OPTIONAL TBUE IS INSTALLED.

24 PLUG PPF60 NOT USED IN THE FIELD.

25 IN HUMAN INTERFACE: VARIABLE SPEED COMPRESSOR DESIGNATED AS COMP 3.

26 WHEN OPTIONAL MODULATING GAS IS NOT INSTALLED. PLUG PPF74 WILL BE UNPLUGGED.

APPROVED 10/Jan/2017 16:42:02 GMT

CAD SYSTEM USED: PRO/DIAGRAM

REMARKS: --

DRAWN BY: T. CARDER

DATE: 09-JAN-16

REVISION DATE: 09-JAN-17

SIMILAR TO: --

TRANE
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FILE NUMBER: 12131930

DRAWING NUMBER: 12131925

PRECEDENT DIAGRAM

POWER. GAS HEAT. 460V 6-10 TON

SHEET: 1 OF 1

REV: D