

WIRE COLOR	DESIGNATION	ABBR	COLOR	ABBR	COLOR
BK	BLACK	PR	PURPLE		
BL	BLUE	RD	RED		
BR	BROWN	WH	WHITE		
GR	GREEN	YL	YELLOW		
OR	ORANGE	TN	TAN		

- NOTES:
- ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES.
  - IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE IT 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. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRES 12B.(BL) AND W34(PR) FROM H3 TERMINAL ON TNS2 AND CONNECT TO H2 TERMINAL ON TNS2.
  - CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE 12C.(BL) FROM 230V TERMINAL ON TNS1 AND CONNECT TO 208V TERMINAL ON TNS1.
  - WHEN COMM INTERFACE IS INSTALLED, CONNECT CABLE FROM COMM J1 TO RTRM J4. SEE COMM INTERFACE LITERATURE FOR SWITCH SETTINGS. SEE ALSO INSET D.

- OPTIONAL MAS, RAS, RHS, DHS AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR.
- CONNECT PPF-5 TO COMM IF PRESENT. OTHERWISE CONNECT TO RTRM.
- REQUIRED FOR CO2 OR VENTILATION OVERRIDE ACCESSORY.
- TO DISABLE COMPRESSORS, REMOVE JUMPER AND CONNECT FIELD SUPPLIED CONTROL DEVICE.
- TO SHUT DOWN THE UNIT FOR EMERGENCY STOP, REMOVE JUMPER AND INSTALL FIELD SUPPLIED DEVICE.
- TERMINALS MAY NOT BE PRESENT.
- 3 STAGE COOLING CONFIG WIRE. CONNECT WIRES 36BY AND 36BZ TO ENABLE 3 STAGE COOLING ONLY ON HIGH EFFICIENCY SHORT DRIFICE UNITS

**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 OUVRIRE 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 A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAINEMENT POUR DECHARGER LES CONDENSATEURS.

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

**ADVERTENCIA**  
¡VOLTAJE PELIGROSO!  
DESCONECTE TODA LA ENERGIA ELÉCTRICA, INCLUIDO LAS DESCONECIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CONDENSADORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCION 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.

TRANE  
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FILE NUMBER: 2309-3140  
DRAWING NUMBER: 2313-0037  
SHEET: 1 OF 1  
REV: B

DIAGRAM  
CONNECTION ELECTRICAL  
COOLING/GAS HEAT  
208-230V  
YC 300E.301E

DRAWN BY: S. SEIS  
TRANE® DATE: 4/12/08  
REPLACES: REVISION DATE:  
CAD SYSTEM USED: SIMILAR TO: 2309-3181

FUSE REPLACEMENT TABLE

FU1, FU2	208-230V	TYPE FLO	20 AMP
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**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.

**PRECAUCIÓN**  
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.

**ATTENTION**  
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.

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

WIRING TO FTB, ECONOMIZER, FFS, CFS, DTS & TC01

