

| WIRE COLOR | DESIGNATION | 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      |            |             |

- NOTES:
- 1 ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES.
  - 2 IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE IT 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. WHEN 575V/60HZ/3PH OR 380-415V/50HZ/3PH OPERATION IS REQUIRED, REMOVE WIRE 12E(BL) FROM 460V TERMINAL ON TNS3 AND CONNECT TO 400V/575V TERMINAL ON TNS3.
  - 5 CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH. WHEN 575V/60HZ/3PH OR 380-415V/50HZ/3PH OPERATION IS REQUIRED, REMOVE WIRES 12D,E(BL) FROM 460V TERMINAL ON TNS1 AND CONNECT TO 400V/575V TERMINAL ON TNS1.
  - 7 WHEN COMM INTERFACE IS INSTALLED, CONNECT CABLE FROM COMM J1 TO RTM J4. SEE COMM INTERFACE LITERATURE FOR SWITCH SETTINGS. SEE ALSO INSET D.
  - 8 WIRES W1, W2 AND W3 USED WITH ELECTRIC HEAT OPTION ONLY. WHEN ELECTRIC HEAT IS REQUIRED REMOVE WIRE NUT FROM WIRES AND CONNECT TO HI VOLTAGE TERMINAL BLOCK (HTB) PER DIAGRAM. SEE ELECTRIC HEAT DIAGRAM FOR REMAINDER OF CIRCUIT.
  - 9 WHEN ELECTRIC HEAT OPTION IS REQUIRED, REFER TO ELECTRIC HEAT DIAGRAM FOR CUSTOMER POWER CONNECTIONS. (SEE INSET E)

- OPTIONAL MAS, RAS, RHS, OHS AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR.
- CONNECT PPF-5 TO COMM IF PRESENT. OTHERWISE CONNECT TO RTM.
- 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.

### 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 TOUTS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, 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 MORTELS.

### ADVERTENCIA

¡VOLTAGE 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.

| TRANE                                                                                                                          |                | FILE NUMBER: | DRAWING NUMBER: | SHEET: | REV |
|--------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|-----------------|--------|-----|
| THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE CONSENT OF TRANE. |                | 2309-3140    | 2313-0043       | 1 OF 1 | B   |
| DIAGRAM                                                                                                                        |                |              |                 |        |     |
| CONNECTION ELECTRICAL                                                                                                          |                |              |                 |        |     |
| 400-575V                                                                                                                       |                |              |                 |        |     |
| W C 150E,180E                                                                                                                  |                |              |                 |        |     |
| DRAWN BY:                                                                                                                      | TRANE® DATE:   |              |                 |        |     |
| S.Seis                                                                                                                         | 4/15/08        |              |                 |        |     |
| REPLACES:                                                                                                                      | REVISION DATE: |              |                 |        |     |
| CAD SYSTEM USED:                                                                                                               | SIMILAR TO:    |              |                 |        |     |
|                                                                                                                                | 2309-3170      |              |                 |        |     |

### 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 ELECTRIC HEAT (PPF7 - SEE INSET E)

WIRING TO FTB, ECONOMIZER, FFS, CFS, DTS (PPM6 & P14 - SEE INSET A)

