

WARNING

HAZARDOUS VOLTAGE!

AVERTISSEMENT

TENSION DANGEREUSE!

ADVERTENCIA

¡VOLTAJE PELIGROSO!

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.

COUPER TOUTES LES TENSIONS ET OUVRIRE LES SECTIONNEURS A DISTANCE, PUIS SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT TOUTE INTERVENTION. VERIFIER QUE TOUS 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 ÊTRE MORTELLES.

DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO 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.

SEE UNIT NAMEPLATE FOR LINE VOLTAGE AND MAX. FUSE SIZE

HTB4

134A, 135A, 136A

OPTIONAL DISCONNECT/ CIRCUIT BREAKER.

7

L1, L2, L3

T1, T2, T3

(BR), (O), (Y)

101A, 101B, 101D, 102A, 102B, 102D, 103A, 103B, 103D

GLC

FU6-FU8

101A(BR), 102A(O), 103A(Y)

128A(BR), 129A(O), 130A(Y)

HTB1

5

SEE MAIN UNIT SCHEMATIC

FU9-FU11

101B(BR), 102B(O), 103B(Y)

104A(BR), 105A(O), 106A(Y)

HC1A

116A(BR), 117A(O), 118A(Y)

HTR 1A

6

HC1A-16

FU15-FU17

101D(BR), 102D(O), 103D(Y)

110A(BR), 111A(O), 112A(Y)

HC2A

122A(BR), 123A(O), 124A(Y)

HTR 2A

6

HC2A-22

| LEGEND    |                            |         |
|-----------|----------------------------|---------|
| REF DES   | DESCRIPTION                | LINE NO |
| FU6-FU8   | FUSE BLOCK-HTB1            | 12      |
| FU9-FU11  | FUSE BLOCK-HC1A            | 15      |
| FU15-FU17 | FUSE BLOCK-HC2A            | 21      |
| GLC       | GROUND LUG - ELECTRIC HEAT | 8       |
| HC1A      | COIL-ELECTRIC HEAT         | 14      |
| HC1A      | CONTACTOR-ELECTRIC HEAT    | 15      |
| HC2A      | COIL-ELECTRIC HEAT         | 20      |
| HC2A      | CONTACTOR-ELECTRIC HEAT    | 22      |
| HTB1      | TERM BLOCK-CONTROL BOX     | 12      |
| HTB4      | TERM BLOCK-ELECTRIC HEAT   | 8       |
| HTR 1A    | HEATER-ELECTRIC HEAT       | 15      |
| HTR 2A    | HEATER-ELECTRIC HEAT       | 21      |

| WIRE COLOR ABBREVIATION CODES |        |        |           |
|-------------------------------|--------|--------|-----------|
| CODE                          | COLOR  | CODE   | COLOR     |
| BK                            | BLACK  | PK     | PINK      |
| BL                            | BLUE   | R      | RED       |
| BR                            | BROWN  | TQ     | TURQUOISE |
| G                             | GREEN  | V.(PR) | PURPLE    |
| GY                            | GREY   | W      | WHITE     |
| O                             | ORANGE | Y      | YELLOW    |

| CONDUCTOR NAME | CONDUCTOR BASE COLOR |
|----------------|----------------------|
| 1              | BLACK                |
| 2              | RED                  |

| SYMBOL LEGEND          |                      |
|------------------------|----------------------|
| SOLID LINE             | —                    |
| DASHED LINES           | - - - - -            |
| DASHED LINE ENCLOSURES | - - - - -            |
| PHANTOM                | — — — — —            |
|                        | EARTH GROUND         |
|                        | EQUIPMENT GROUND     |
|                        | SPLICE               |
|                        | JUNCTION             |
|                        | MULTIPLE WIRE SYMBOL |
|                        | LINE BREAK           |
|                        | TWISTED PAIR         |
|                        | SHIELDED CABLE       |

NOTES: (STANDARD NOTES 1-3, WIRE COLOR & SYMBOL LEGEND TABLES APPLY TO ALL SHEETS.)

- 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 SHUT DOWN HAS OCCURRED.
- SOLID LINES INDICATE WIRING PROVIDED BY TRANE CO. DASHED LINES INDICATE RECOMMENDED FIELD WIRING PROVIDED BY THE CUSTOMER. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE CUSTOMER. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
- NUMBERS ALONG THE RIGHT SIDE MARGIN OF THE SCHEMATIC DESIGNATE BY LINE NUMBER THE LOCATION OF CONTACTS ENERGIZED BY COIL. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROWHEAD POINTING UPWARD BELOW THE LINE NUMBER INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.
- IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THE UNIT MUST BE REPLACED, USE ONLY APPLIANCE WIRING MATERIAL RATED AT 105° C OR EQUIVALENT.

5 SEE UNIT CONTROLS DIAGRAM FOR BALANCE OF CIRCUIT.

6 THERMOSTAT DEVICES ARE EQUIPPED WITH AUTO-RESETTING THERMAL LIMIT SWITCHES AND ONE-SHOT LIMIT FUSE.

7 WIRES 134A, 135A, 136A PRESENT ON UNITS WITH OPTIONAL DISCONNECT/CIRCUIT BREAKER.

|                  |                 |
|------------------|-----------------|
| DESIGNER:        | A. WAELE        |
| ENGINEER:        | R. CERVANTES    |
| TRANE © DATE:    | 22-NOV-2021     |
| REPLACES:        |                 |
| SIMILAR TO:      |                 |
| REVISION DATE:   | 12-MAR-2024     |
| REVISED BY:      | E.STOVALL       |
| APPROVED BY:     | R. CERVANTES    |
| CAD SYSTEM USED: | CREO SCHEMATICS |

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| PRECEDENT<br>DIAGRAM                                                               |                 |        |     |
|------------------------------------------------------------------------------------|-----------------|--------|-----|
| SCHEMATIC/COMPONENT LOCATION; ELECTRIC HEAT<br>2 STAGE 12, 18, 27 & 36 KW 208/240V |                 |        |     |
| MASTER NUMBER:                                                                     | DRAWING NUMBER: | SHEET: | REV |
|                                                                                    | 12134302        | 1 OF 1 | D   |