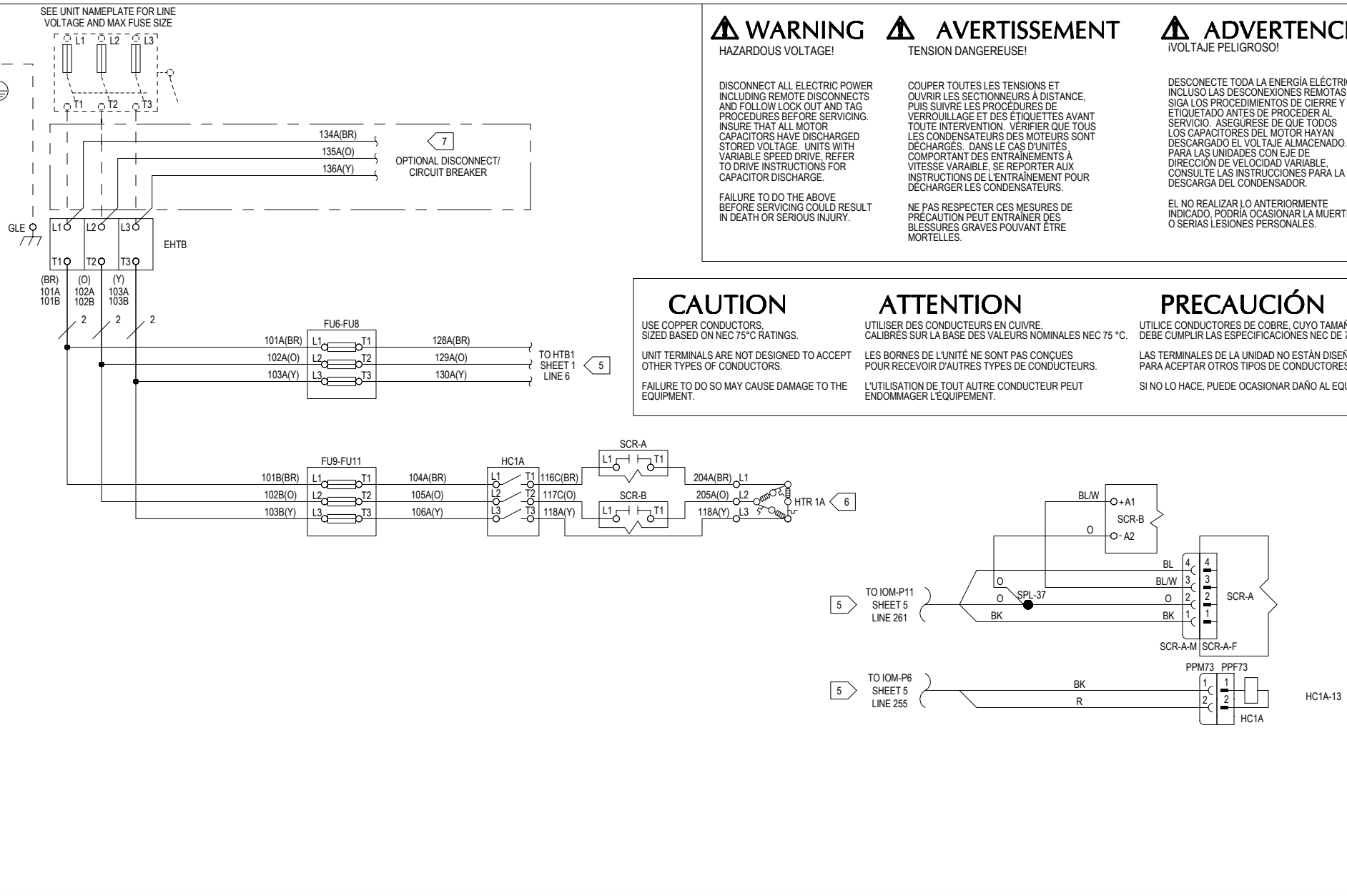
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## ⚠ WARNING

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.

## CAUTION

USE COPPER CONDUCTORS, SIZED BASED ON NEC 75°C RATINGS.

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

## ATTENTION

UTILISER DES CONDUCTEURS EN CUIVRE, CALIBRÉS SUR LA BASE DES VALEURS NOMINALES NEC 75 °C.

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 CONDUCTORES DE COBRE, CUYO TAMAÑO DEBE CUMPLIR LAS ESPECIFICACIONES NEC DE 75°C.

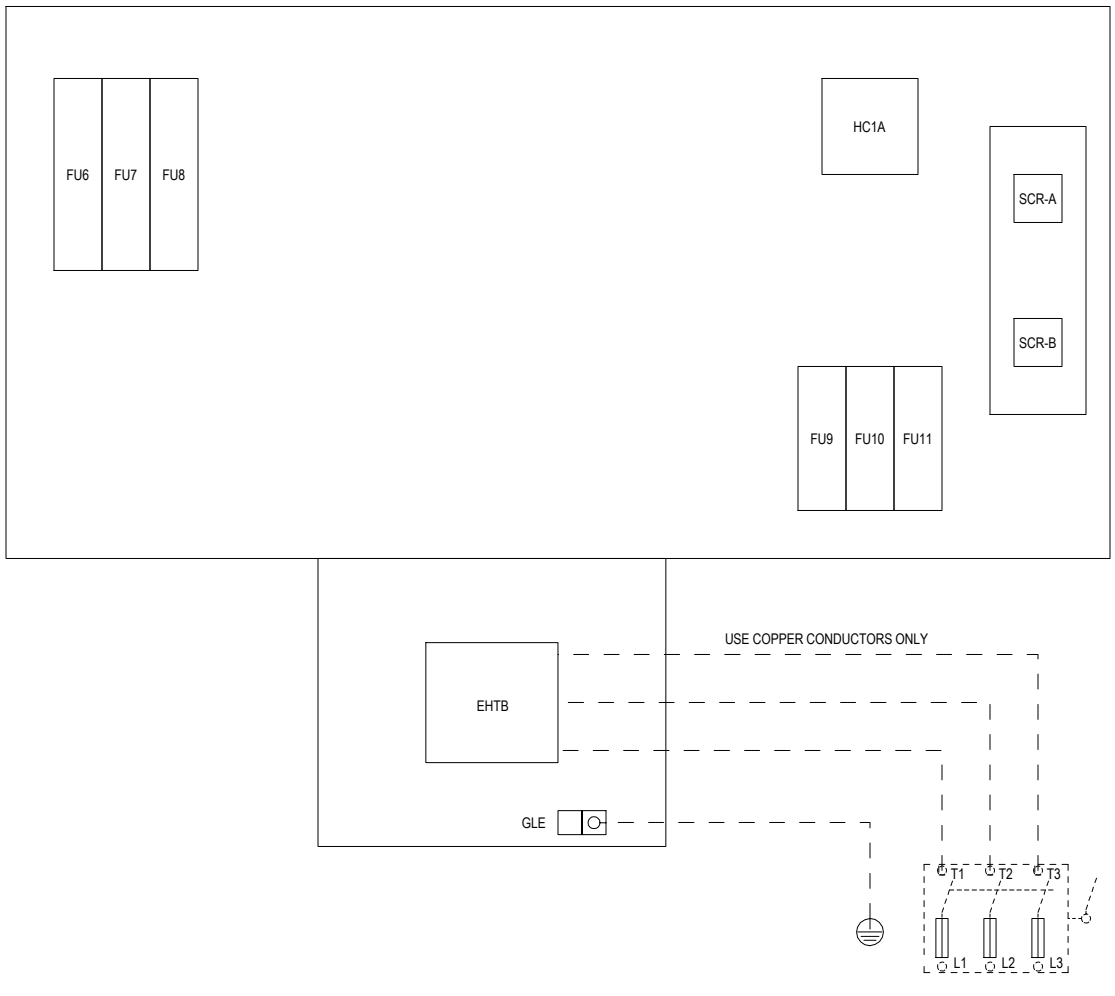
LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

| | LEGEND | |
|---|---|---|
| REF DES | DESCRIPTION | LINE NO |
| EHTB | TERM BLOCK-ELECTRIC HEAT | 6 |
| FU6-FU8 | FUSE BLOCK-HTB1 | 10 |
| FU9-FU11 | FUSE BLOCK-HC1A | 13 |
| GLE | GROUND LUG; ELECTRIC HEAT | 6 |
| HC1A | COIL-ELECTRIC HEAT | 20 |
| HC1A | CONTACTOR-ELECTRIC HEAT | 13 |
| HTR 1A | HEATER-ELECTRIC HEAT | 13 |
| SCR-A | PRIMARY SOLID STATE RELAY-POWER | 13 |
| SCR-A | PRIMARY SOLID STATE RELAY-CONTROLS | 16 |
| SCR-B | SECONDARY SOLID STATE RELAY-POWER | 14 |
| SCR-B | SECONDARY SOLID STATE RELAY-CONTROLS | 14 |

| 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 |




NOTES: (STANDARD NOTES 1-3 & WIRE COLOR TABLE APPLY TO ALL SHEETS.)

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 SHUT DOWN HAS OCCURRED.
2. 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.
3. 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 ARROW HEAD POINTING UPWARD BELOW THE LINE NUMBER INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.
4. IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THE UNIT MUST BE REPLACED, USE ONLY APPLIANCE WIRING MATERIAL RATED AT 105° C OR EQUIVALIENT.

5 SEE MAIN UNIT SCHEMATIC 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. SEE SUPPLEMENTARY LABEL FOR THROUGH BASE UTILITY ELECTRIC (TBUE) FOR BALANCE OF CIRCUIT.

| SYMBOL LEGEND | | | | | |
|---|---|---|---|---|---|
| TRANE WIRING: ——— | CUSTOMER PROVIDED: — — — | EARTH GROUND: | SPLICE: ● | MULTIPLE WIRE SYMBOL: / | SHIELDED CABLE: |
| FIELD WIRING: — — — | ALTERNATE/OPTIONS: —— - —— | EQUIPMENT CHASSIS: | JUNCTION: ● | TWISTED CONDUCTORS: | LINE BREAK: |

TRANE ®

THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE.

PRECEDENT
SCHEMATIC/COMPONENT LOCATION; MODULATING ELECTRIC HEAT
18KW 208V/240V

| DESIGNER: | ENGINEER: | NUMBER: | TRANE © DATE: | REV | SHEET |
|---|---|---|---|---|---|
| S. BWANALI | D. MACVICAR | 12135066 | 24-JUL-2025 | B | 1 |