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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.

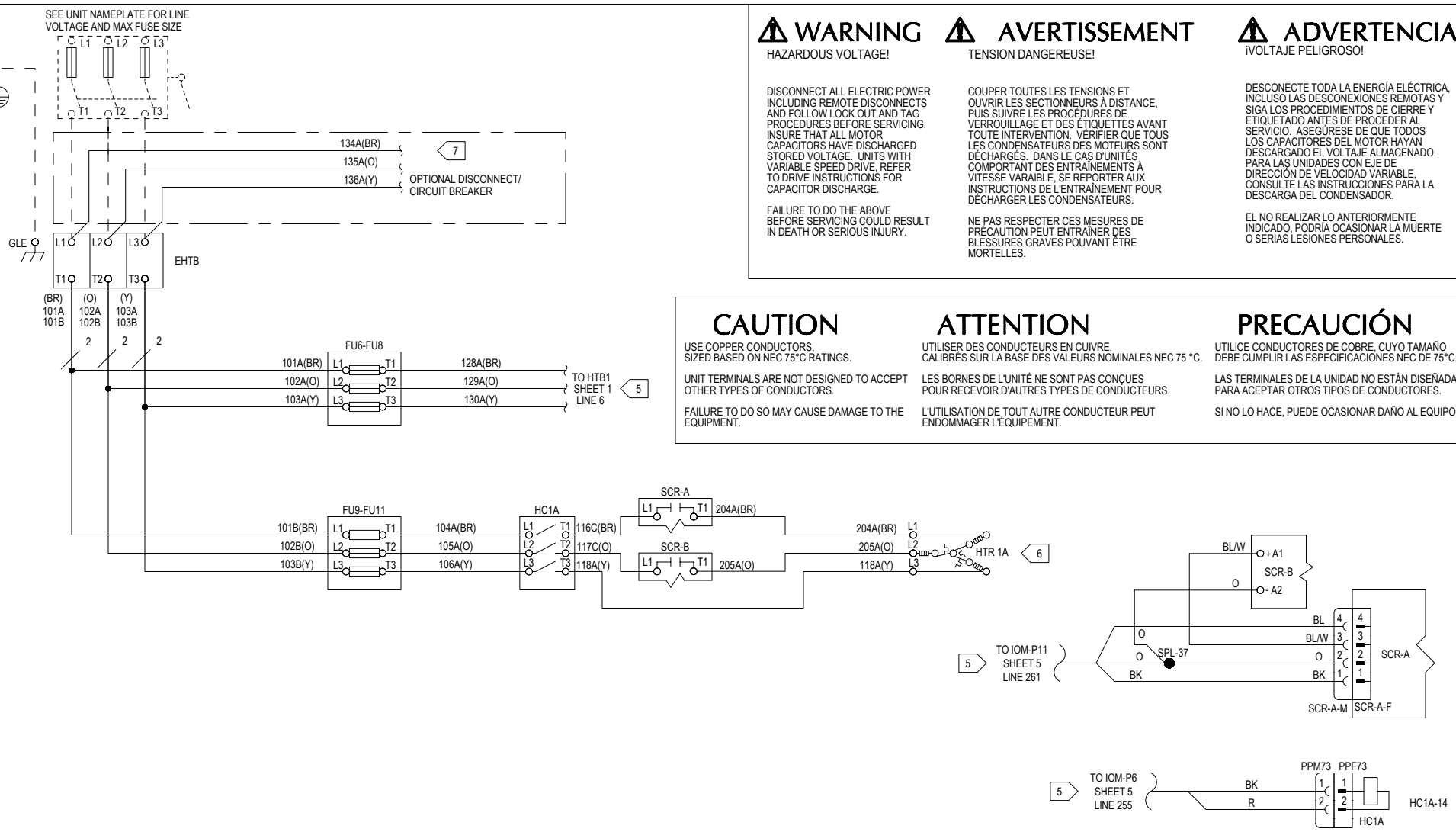
L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'ÉQUIPEMENT.

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.

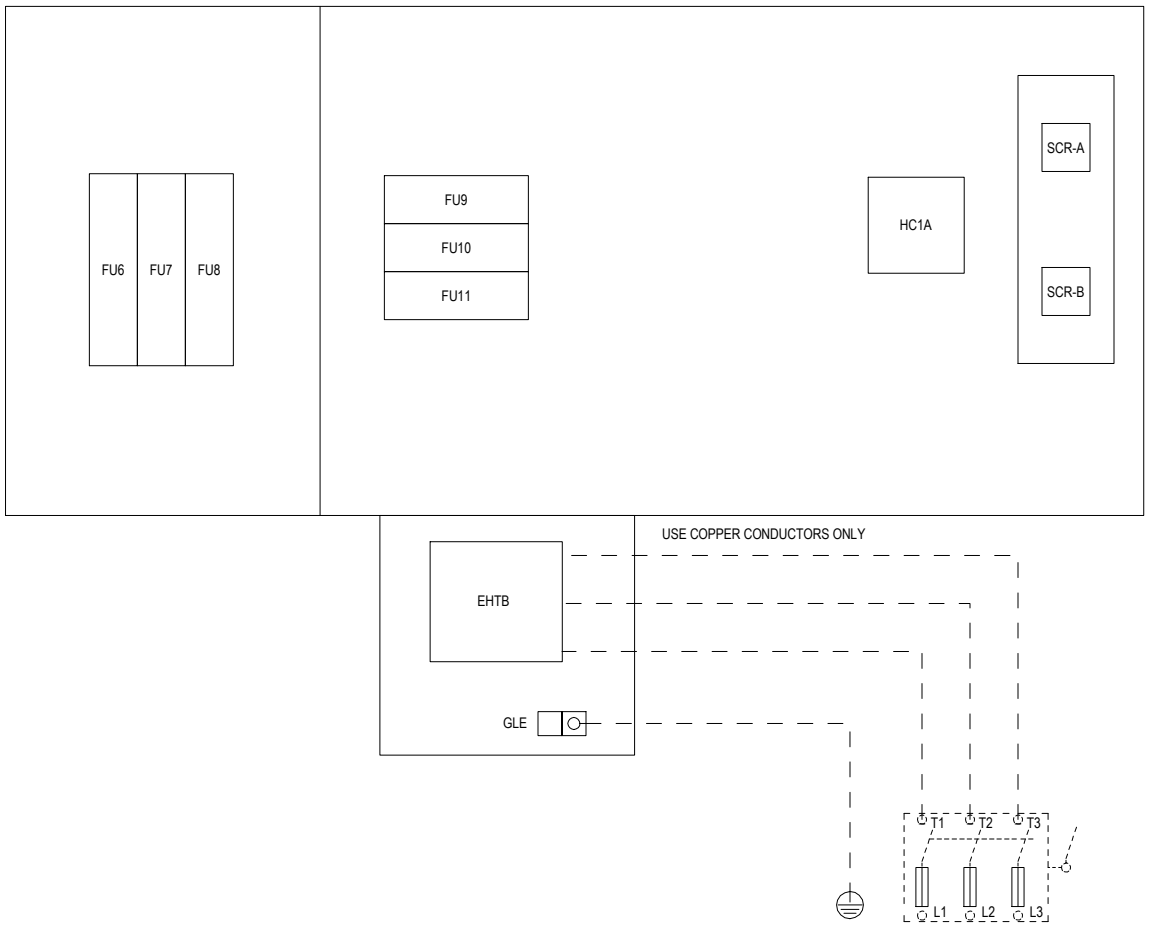
SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.



LEGEND		
REF DES	DESCRIPTION	LINE NO
EHTB	TERM BLOCK-ELECTRIC HEAT	6
FU6-FU8	FUSE BLOCK-HTB1	10
FU9-FU11	FUSE BLOCK-HC1A	14
GLE	GROUND LUG; ELECTRIC HEAT	6
HC1A	COIL-ELECTRIC HEAT	21
HC1A	CONTACTOR-ELECTRIC HEAT	14
HTR 1A	HEATER-ELECTRIC HEAT	14
SCR-A	PRIMARY SOLID STATE RELAY-POWER	13
SCR-A	PRIMARY SOLID STATE RELAY-CONTROLS	17
SCR-B	SECONDARY SOLID STATE RELAY-CONTROLS	15
SCR-B	SECONDARY SOLID STATE RELAY-POWER	15

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 ®

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PRECEDENT
SCHEMATIC/COMPONENT LOCATION; MODULATING ELECTRIC HEAT
1 STAGE 6, 9, & 18KW 460V/575V

DESIGNER:	ENGINEER:	NUMBER:	TRANE © DATE:	REV	SHEET
S. BWANALI	D. MACVICAR	12135063	04-SEP-2025	A	1