

⚠ 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 COULD RESULT IN DEATH OR SERIOUS INJURY.

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COUPER TOUTES LES TENSIONS ET OUVRIR 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 ETRE MORTELLES.

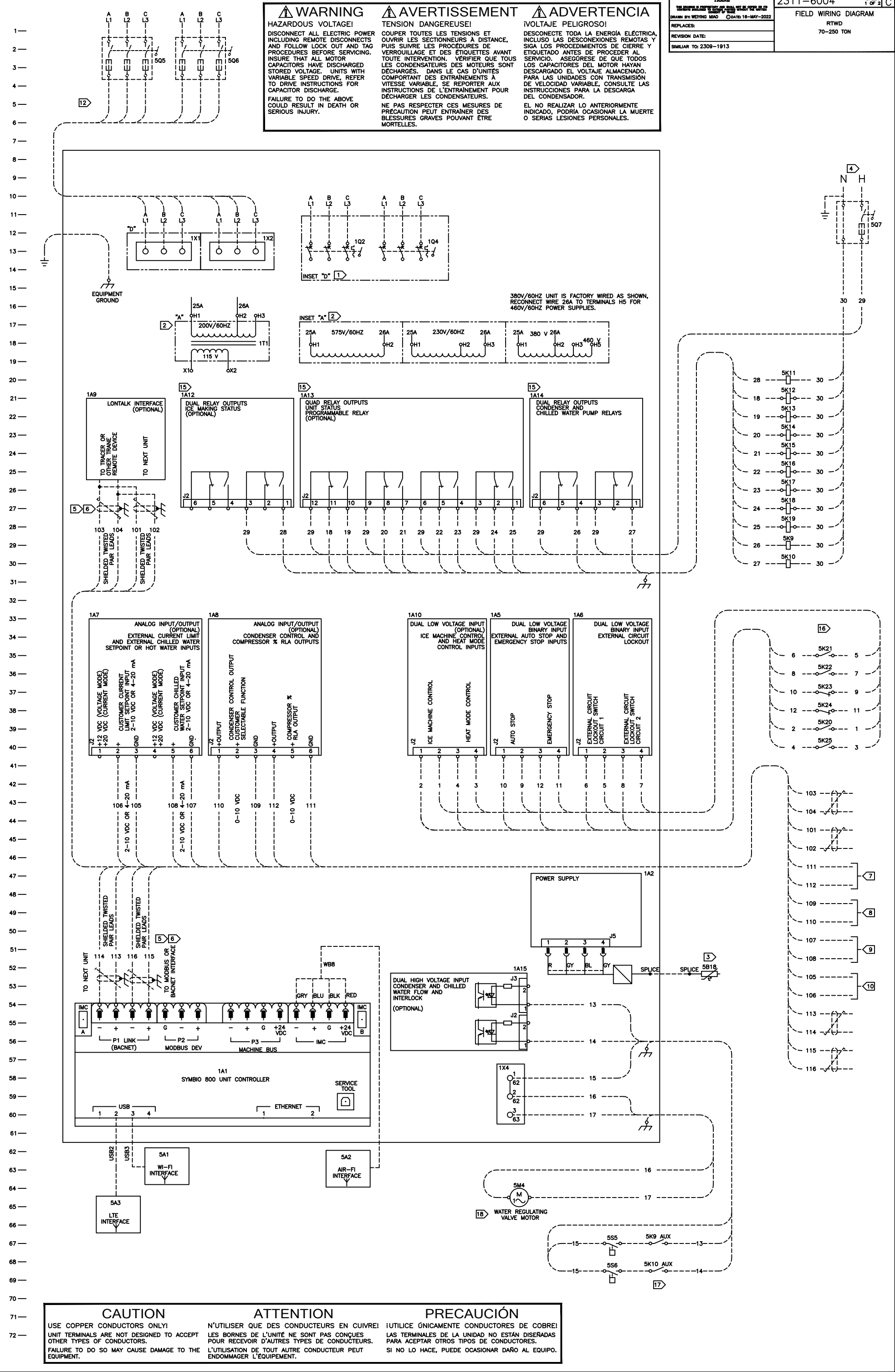
⚠ ADVERTENCIA
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TRANE
380V/60HZ UNIT
DRAWN BY WEIYING MAO ©DATE:18-MAY-2022

REPLACES:
REVISION DATE:
SIMILAR TO: 2309-1913

2311-6004
FIELD WIRING DIAGRAM
RTWD
70-250 TON

SHEET 1 OF 2
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TRANE THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE DRAWN BY: WEIYING MIAO © DATE: 16-MAY-2022 REPLACES: REVISION DATE: SIMILIAR TO: 2309-1913	2311-6004	SHEET 2 OF 2	REV C
	FIELD WIRING DIAGRAM		
	RTWD		
	70-250 TON		

- 1
- SINGLE SOURCE POWER IS PROVIDED AS STANDARD ON THESE PRODUCTS, DUAL SOURCE POWER IS OPTIONAL. FIELD CONNECTIONS FOR SINGLE SOURCE POWER ARE MADE TO 1X1, 1Q2. WHEN THE OPTIONAL DUAL SOURCE POWER IS SELECTED THE FIELD CONNECTIONS FOR CIRCUIT #2 ARE MADE TO 1X2, 1Q4.
- 2
- FOR VOLTAGES 200V/60HZ, 380V/60HZ, 575V/60HZ, WIRE 26A SHALL BE CONNECTED TO H2. FOR VOLTAGE 230V/60HZ, WIRE 26A SHALL BE CONNECT TO H3. FOR 460V/60HZ, WIRE 26A SHALL BE CONNECT TO H5.
- 3
- FACTORY INSTALLED OUTDOOR AIR TEMPERATURE SENSOR LEAD LENGTH TO BE SPLICED AND EXTENDED BY CUSTOMER. 18-AWG, TWISTED PAIR RECOMMENDED.
- 4
- CUSTOMER SUPPLIED POWER 115V/60HZ/1PH OR 220V/50HZ/1PH TO POWER RELAYS. MAX. FUSE SIZE IS 15 AMPS. GROUND ALL CUSTOMER SUPPLIED POWER SUPPLIES AS REQUIRED BY APPLICABLE CODES. GREEN GROUND SCREWS ARE PROVIDED IN UNIT CONTROL PANEL.
- 5
- SHIELDED, TWISTED PAIR LEADS ARE REQUIRED FOR CONNECTIONS TO THE COMMUNICATION INTERFACE MODULES(1A1 OR OPTIONAL 1A9). THE SHIELD SHOULD BE GROUNDED AT THE UNIT CONTROL PANEL END.
- 6
- 22-AWG, SHIELDED COMMUNICATION WIRE EQUIVALENT TO HELIX LF22P0014216 RECOMMENDED FOR WIRING TO NEXT UNIT. THE SUM TOTAL OF ALL INTERCONNECTED CABLE SEGMENTS NOT TO EXCEED 4500 FEET. CONNECTION TOPOLOGY SHOULD BE DAISY CHAIN. REFER TO BUILDING AUTOMATION SYSTEM (BAS) COMMUNICATION INSTALLATION LITERATURE FOR END OF LINE TERMINATION RESISTOR REQUIREMENTS.
- 7
- WIRED TO COMPRESSOR % RLA.
- 8
- WIRED TO CONDENSER CONTROL CUSTOMER SELECTABLE FUNCTION.
- 9
- WIRED TO CUSTOMER CHILLED WATER SETPOINT 2-10 VDC OR 4-20 mA.
- 10
- WIRED TO CUSTOMER CURRENT LIMIT SETPOINT 2-10 VDC OR 4-20 mA.
11.
- REFER TO RTWD ELECTRICAL SCHEMATIC FOR SPECIFIC ELECTRICAL CONNECTION INFORMATION AND NOTES PERTAINING TO WIRING INSTALLATION.
- 12
- ALL UNIT POWER WIRING MUST BE 600-V, COPPER CONDUCTORS ONLY AND HAVE A MINIMUM TEMPERATURE INSULATION RATING OF 75 DEGREE C. REFER TO UNIT NAMEPLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION DEVICE. PROVIDE AN EQUIPMENT GROUND IN ACCORDANCE WITH APPLICABLE ELECTRIC CODES.
13.
- ALL FIELD WIRING MUST BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE AND LOCAL REQUIREMENTS.
14.
- ALL CUSTOMER CONTROL CIRCUIT WIRING MUST BE COPPER CONDUCTORS ONLY AND HAVE A MINIMUM INSULATION RATING OF 300 V. EXCEPT AS NOTED, ALL CUSTOMER CONTROL CIRCUIT WIRING CONNECTIONS HAVE A WIRE RANGE OF 14 TO 18 AWG.
- 15
- UNIT PROVIDED DRY CONTACTS FOR THE CONDENSER/CHILLED WATER PUMP CONTROL. RELAYS ARE RATED FOR 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, OR ⅓ HP, 7.2 FLA AT 120 V, CONTACTS ARE RATED FOR 5 A GENERAL PURPOSE DUTY 240 V.
- 16
- CUSTOMER SUPPLIED CONTACTS FOR ALL LOW VOLTAGE CONNECTIONS MUST BE COMPATIBLE WITH DRY CIRCUIT 24 VDC FOR A 12-mA RESISTIVE LOAD. SILVER OR GOLD PLATED CONTACTS RECOMMENDED.
- 17
- FLOW SWITCH AND INTERLOCK CONTACTS MUST BE ACCEPTABLE FOR USE IN A 120-V, 1-mA CIRCUIT OR A 220-V, 2-mA CIRCUIT.
- 18
- 220V VALVE OPTION REQUIRES CUSTOMER PROVIDED POWER.

REPLACEABLE FUSE TABLE

Panel Type		Designation	Class	QTY.	Size (A)
Volts	Hertz				
200	60	1F13, 14	CC	2	12
		1F15	CC	1	12
230	60	1F13, 14	CC	2	10
		1F15	CC	1	12
380	60	1F13, 14	CC	2	6
		1F15	CC	1	12
460	60	1F13, 14	CC	2	6
		1F15	CC	1	12
575	60	1F13, 14	CC	2	5
		1F15	CC	1	12

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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.

ATTENTION

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'ÉQUIPEMENT.

PRECAUCIÓN

¡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.