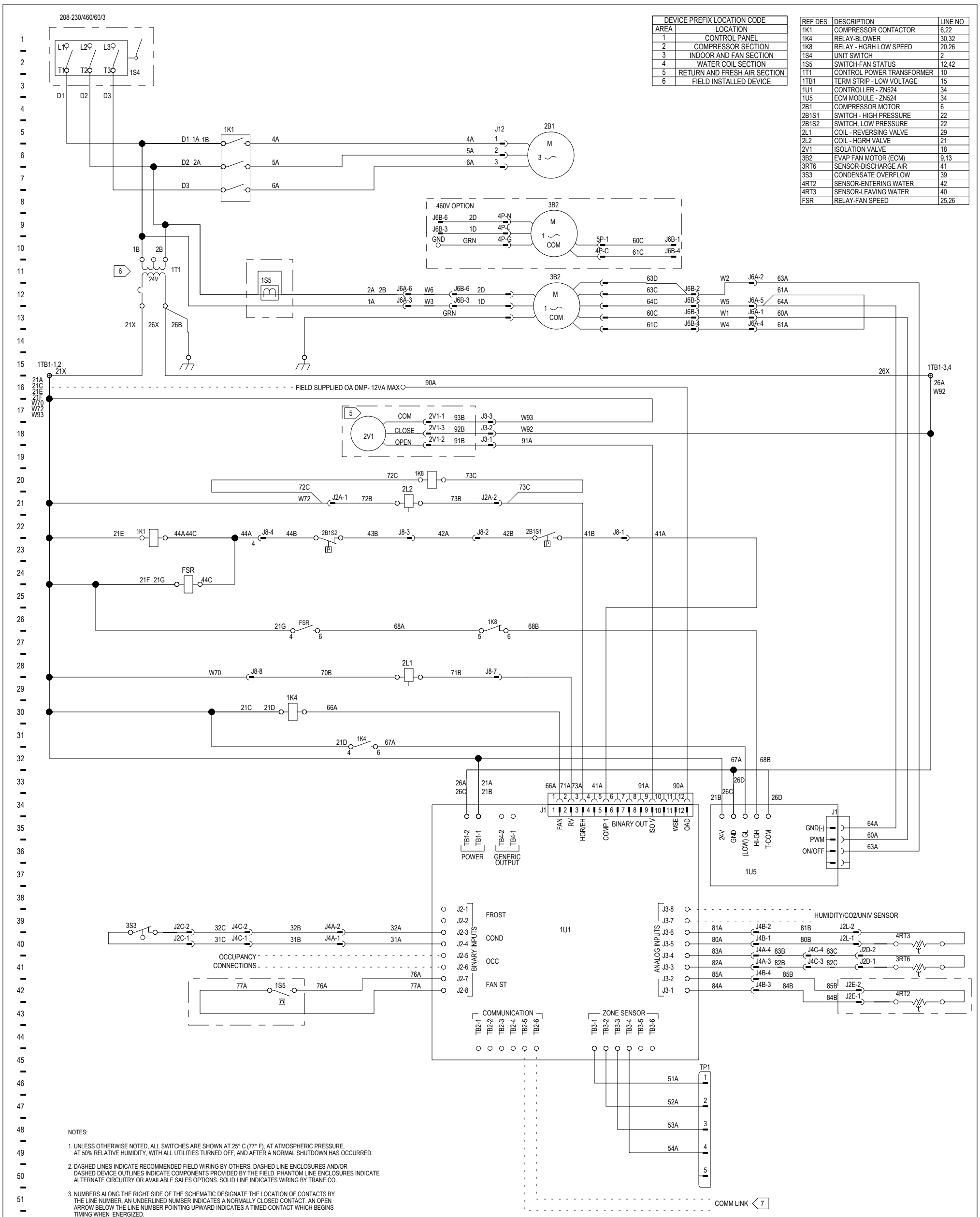


| DEVICE PREFIX LOCATION CODE | |
|---|---|
| AREA | LOCATION |
| 1 | CONTROL PANEL |
| 2 | COMPRESSOR SECTION |
| 3 | INDOOR AND FAN SECTION |
| 4 | WATER COIL SECTION |
| 5 | RETURN AND FRESH AIR SECTION |
| 6 | FIELD INSTALLED DEVICE |

| REF DES | DESCRIPTION | LINE NO |
|---|---|---|
| 1K1 | COMPRESSOR CONTACTOR | 6,22 |
| 1K4 | RELAY-BLOWER | 30,32 |
| 1K8 | RELAY - HGRH LOW SPEED | 20,26 |
| 1S4 | UNIT SWITCH | 2 |
| 1S5 | SWITCH-FAN STATUS | 12,42 |
| 1T1 | CONTROL POWER TRANSFORMER | 10 |
| 1TB1 | TERM STRIP - LOW VOLTAGE | 15 |
| 1U1 | CONTROLLER - ZN524 | 34 |
| 1U5 | ECM MODULE - ZN524 | 34 |
| 2B1 | COMPRESSOR MOTOR | 6 |
| 2B1S1 | SWITCH - HIGH PRESSURE | 22 |
| 2B1S2 | SWITCH, LOW PRESSURE | 22 |
| 2L1 | COIL - REVERSING VALVE | 29 |
| 2L2 | COIL - HGRH VALVE | 21 |
| 2V1 | ISOLATION VALVE | 18 |
| 3B2 | EVAP FAN MOTOR (ECM) | 9,13 |
| 3RT6 | SENSOR-DISCHARGE AIR | 41 |
| 3S3 | CONDENSATE OVERFLOW | 39 |
| 4RT2 | SENSOR-ENTERING WATER | 42 |
| 4RT3 | SENSOR-LEAVING WATER | 40 |
| FSR | RELAY-FAN SPEED | 25,26 |

NOTES:

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 SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINE INDICATES WIRING BY TRANE CO.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY THE LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROW BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.
4. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS. ALL LOW VOLTAGE FIELD CONNECTIONS ARE CLASS 2.

5 FOR TWO WIRE VALVES CONNECT TO WIRES 91B AND 93B. FOR FIELD INSTALLED VALVE WIRES 91B, 92B, AND 93B ARE COILED BEHIND CONTROL BOX.

6 FOR 208/230V UNITS TRANSFORMER IS FACTORY WIRED FOR 230V. FOR 208V APPLICATION MOVE PRIMARY WIRE FROM THE 230V TAB TO THE 208V TAB.

7 COMMUNICATION WIRE MUST BE TRANE PART NO 400-20-28 OR "LEVEL 4" CABLE. MAXIMUM OF 4500 FOOT AGGREGATE RUN. CAUTION! DO NOT RUN POWER IN THE SAME CONDUIT OR WIRE BUNDLE WITH COMMUNICAITON LINK.

## ⚠ 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.

| | | |
|---|---|---|
| DESIGNER: R JOHNSON | TRANE ® | WSHP SCHEMATIC DIAGRAM GE/EX ZN CONTROL -HP W/ HGR ECM - THREE PHASE |
| ENGINEER: M COOMBS | | |
| TRANE © DATE: 29-JULY-2021 | | |
| REPLACES: | | |
| SIMILAR TO: | THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE. | |
| REVISION DATE: | | |
| REVISED BY: | | |
| APPROVED BY: M COOMBS | | |
| CAD SYSTEM USED: CREO SCHEMATICS | IEC DESIGN COMPLIANT | |

| MASTER NUMBER: | DRAWING NUMBER: | SHEET: | REV |
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| | 23115858 | 1 OF 1 | A |