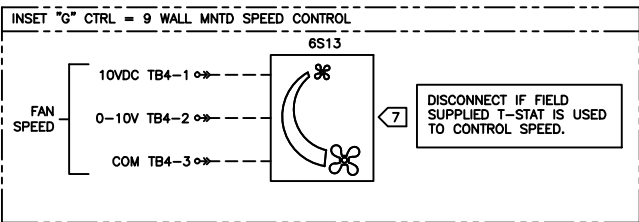
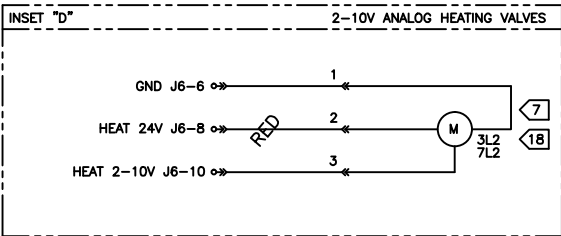
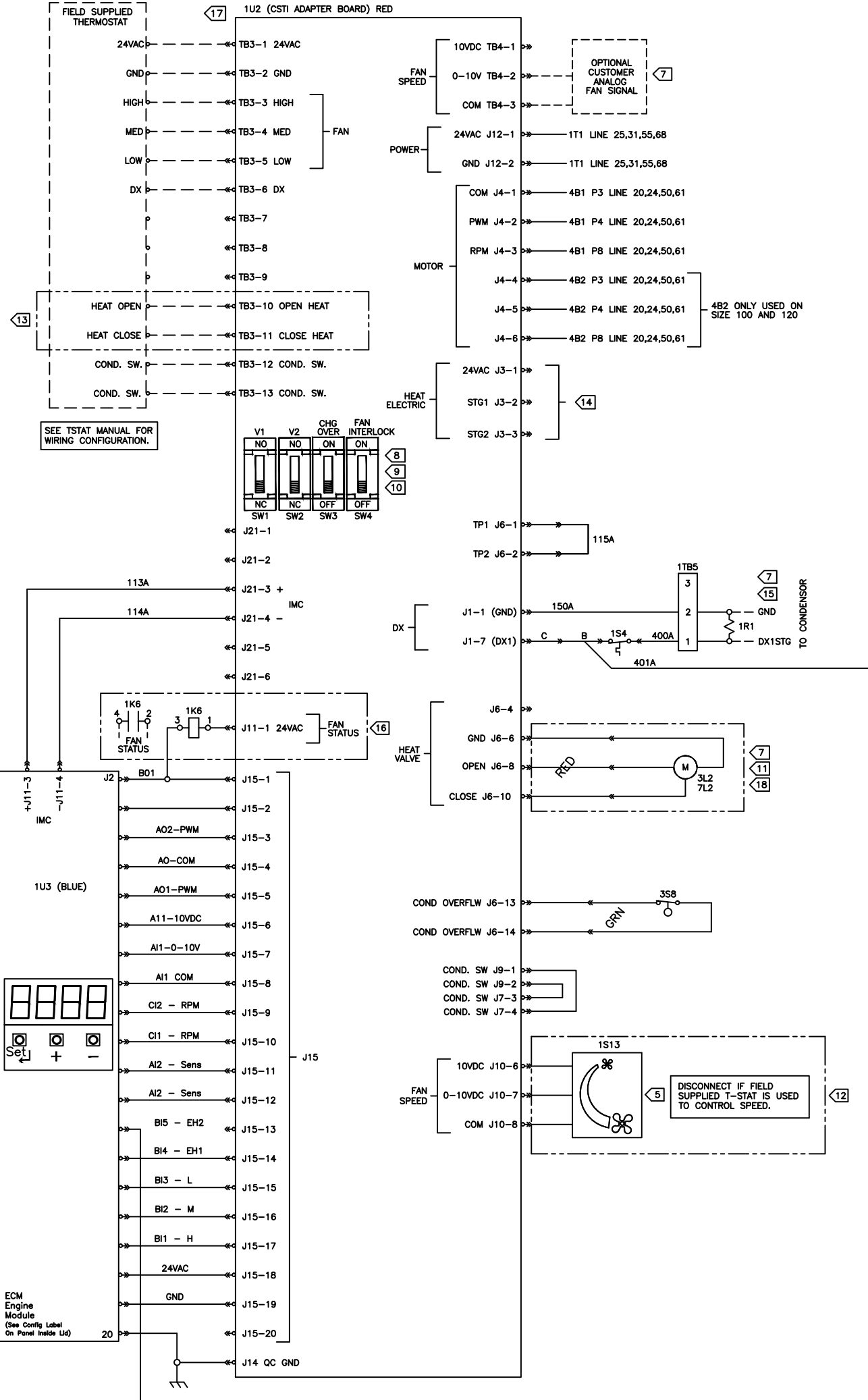
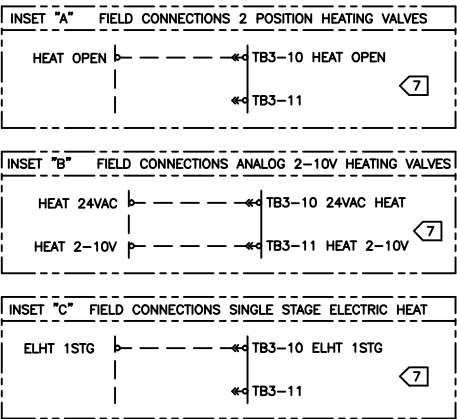


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INSET "F" CTRL = 0

WARNING

Customer Controller must NOT allow electric heat actuation without the fan being energized.

REVISIONS	DATE	BY	DESCRIPTION
1	10-MAY-2019	R. SPAN-BOUR	REVISION 1

REVISIONS	DATE	BY	DESCRIPTION
1	10-MAY-2019	R. SPAN-BOUR	REVISION 1

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U2	CSTI ADAPTER BOARD	88
1U3	ECM ENGINE BOARD	114
3L2	HEATING COIL VALVE	114,115,120
7L2	HEATING COIL VALVE	114,115,120
3S8	CONDENSATE OVERFLOW	114
1S13	CSTI UNIT MNTD FAN SWITCH	124
6S13	CSTI WALL MNTD FAN SWITCH	75
1TB5	DX TERMINAL BLOCK	107
1R1	DX FROSTSTAT	109
1S4	DX FROSTSTAT	110
1K6	RELAY; FAN STATUS	112,113

- NOTES (SHEET TWO):
- 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.
 - DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINED ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINES INDICATE WIRING BY TRANE.
 - NUMBERS ALONG THE LEFT SIDE OF SCHEMATIC DESIGNATE THE LOCATION OF COMPONENTS BY LINE NUMBER.
 - ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS. ALL FIELD WIRING MUST HAVE AN INSULATION VOLTAGE RATING THAT EQUALS OR EXCEEDS UNIT RATED VOLTAGE.
 - VALVE ACTUATOR POWER CONSUMPTION IS 4 WATTS MAXIMUM @24 VAC (DURING VALVE POSITION CHANGE).
- 7 USE CLASS 2 WIRING.
- 8 SW1 AND SW2 ARE SHOWN IN THE NC POSITION. SW1 AND SW2 ARE IN THE NC POSITION WHEN VALVES ARE NORMALLY CLOSED OR MODULATING. SW1 AND SW2 ARE IN THE NC POSITION WHEN DX COILS ARE SELECTED. SW1 AND/OR SW2 ARE IN THE NO POSITION WHEN VALVES ARE NORMALLY OPEN. SW1 IS MAIN VALVE (COOLING) AND SW2 IS AUX VALVE (HEATING) FOR FANCOIL AND LOWBOY. SW2 IS MAIN VALVE (HEATING) FOR FF.
- 9 SW3 IS SHOWN IN THE OFF POSITION. SW3 IS TURNED ON WHEN CHANGEOVER COILS ARE SELECTED.
- 10 SW4 IS SHOWN IN THE OFF POSITION. SW4 IS TURNED ON WHEN UNIT HAS ELECTRIC HEAT.
- 11 WIRING SHOWN IS FOR HEATING MODULATING VALVE. SEE INSET "D" FOR 2-10V HEATING ANALOG VALVE WIRING. SEE INSET "E" FOR 2 POSITION HEATING VALVE WIRING. FIELD SUPPLIED ACTUATOR UTILIZES THE SAME CONNECTION POINTS AS FACTORY WIRING.
- 12 WIRING SHOWN IS FOR UNIT MOUNTED VARIABLE SPEED CONTROL (CTRL = 8). SEE INSET "F" FOR UNITS WITH NO SPEED CONTROL (CTRL = 0). SEE INSET "G" FOR WALL MOUNTED VARIABLE SPEED CONTROL WIRING (CTRL = 9).
- 13 FIELD CONNECTIONS SHOWN ON TB3-10 AND TB3-11 ARE FOR UNITS WITH HEATING MODULATING VALVES. SEE INSET "A" FOR TWO POSITION HEATING VALVES. SEE INSET "B" FOR 2-10V ANALOG HEATING VALVES. FIELD SUPPLIED ACTUATOR UTILIZES THE SAME CONNECTION POINTS AS FACTORY WIRING. SEE INSET "C" FOR SINGLE STAGE ELECTRIC HEAT WIRING.
- 14 ELECTRIC HEAT WIRING SHOWN ON SHEETS 23114699 THRU 23114714.
- 15 FIELD INSTALLED CONDENSING UNIT SHALL BE WIRED BETWEEN TERMINALS 1TB5-1 AND 1TB5-2 FOR DX STAGE 1 OUTPUT. REMOVE RESISTOR 1R1 PRIOR TO WIRING CONDENSOR. OUTPUTS RATED FOR 24VAC 6VA MAXIMUM EACH, FOR HEATPUMP APPLICATION REVERSING VALVE WIRING TO BE FIELD RESPONSIBILITY.
- 16 WIRING SHOWN IS FOR CSTI WITH FAN STATUS (CTYP = N). CSTI WITH FAN STATUS IS NOT AVAILABLE WITH BOTH DX AND ELECTRIC HEAT.
- 17 24V OUTPUT IS RATED 15VA.
- 18 FIELD SUPPLIED ACTUATOR WIRING UTILIZES THE SAME CONNECTION POINTS AS FACTORY ACTUATOR WIRING.
- 19 VALVES SHOWN IN NORMALLY CLOSED POSITION, FOR NORMALLY OPEN POSITION, THE VALVE SIGNAL BECOMES CLOSE.