

WIRE, 18 AWG:
 BE = BLUE
 BK = BLACK
 BN = BROWN
 GN = GREEN
 OE = ORANGE
 PK = PINK
 RD = RED
 VT = VIOLET
 WE = WHITE
 YW = YELLOW

WIRE, 12 AWG:
 *BK = BLACK
 *GN = GREEN
 *WE = WHITE
 *RD = RED

RELAY/SWITCH
 TERMINALS:
 C = COMMON
 NC = NORM. CLOSED
 NO = NORM. OPEN

OR = SHIELDED
 CABLE

CONTROL PANEL
 TERMINAL STRIP

WIRE JUNCTION
 W/ SPRING CAGE
 CONNECTOR
 (PN 81368915)

REV: J	EN: 34-1105-9865	DATE: 01/05/15	DWN:	SPS	ENG:	SPS	APPD:	APPD:
CORRECTED EXTRA WIRE COLOR ERROR								

REV: J	EN: 34-1105-9865	DATE: 01/05/15	DWN:	SPS	ENG:	SPS	APPD:	APPD:
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Thermal Solutions Products LLC
 PROPERTY OF
 LANCASTER, PA 17604-3244

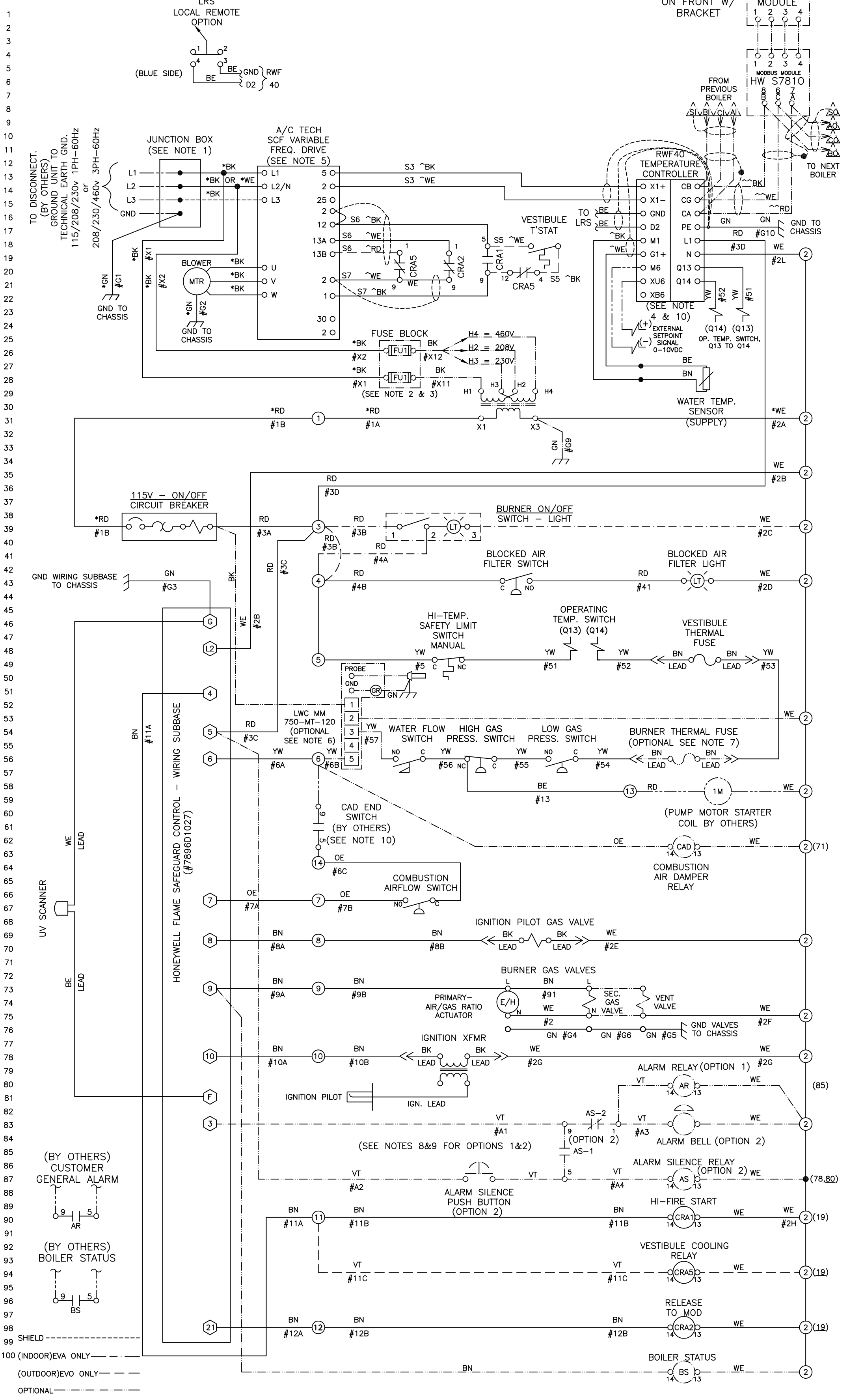
TITLE
 WIRING, MOD, U/FM/CSD-1/DB&B
 115/208/230/460-1/3PH-60HZ
 LRS FOR EXT. SETPOINTS, CAD RELAY

DRAWING NUMBER
 34-1099-C

SCALE
 NONE

DWG SIZE
 C

SHEET
 1 OF 1



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- NOTES:
- USE TERMS L1 & N FOR 120V 1PH(BK & WE WIRE)
 - USE TERMS L1 & L2 FOR 208/230 1PH(BK WIRE)
 - USE TERMS L1, L2, & L3 FOR 208/230/460 3PH(BK WIRE)
 - UL CLASS 'CC' CARTRIDGE FUSE
 - TIME DELAY, 600VAC, 200KA I.R., 3 AMP
 - FOR 120V-1PH ONLY:
 - COMBINE RD WIRE LABELED 1A INTO SPRING CAGE
 - CONNECTOR W/ L1 WIRES FROM J-BOX AND VFD.
 - CONNECTOR W WIRE LABELED 2A INTO SPRING CAGE
 - CONNECTOR W/ L2 WIRES FROM J-BOX AND VFD.
 - TRANSFORMER GROUND IS NOT USED.
 - RWF40 PROGRAMMING FOR AN EXTERNAL SET POINT
 C111-9401 FOR 0-10VDC
 C111-9301 FOR 4-20mA
 IF 4-20mA SIGNAL IS USED REMOVE WIRE FROM X16 AND INSTALL INTO X86
 - FACTORY WIRED TO TERMINAL 5 FOR 0-10VDC.
 IF 4-20mA IS USED, CONNECT WIRE S3 BK TO TERM 25 AND CHANGE PARAMETER P-05 TO 04.
 - LOW WATER CUTOFF IS NOT USED, YW WIRE 6B IS CONNECTED FROM TERMINAL ② TO WATER FLOW SWITCH TERMINAL (NO)
 - IF BURNER THERMAL FUSE IS NOT USED, YW WIRE #54 IS CONNECTED FROM VESTIBULE THERMAL FUSE TO LOW GAS PRESS. SWITCH TERMINAL (C)
 - OPTION 1: GENERAL ALARM RELAY CAN BE USED WITH OPTION 2 WHEN SPECIFIED ON WORK ORDER. IF OPTION 2 IS NOT SPECIFIED, CONNECT VT WIRE #A1 FROM TERM 3 ON SUBBASE TO TERM 14 ON ALARM RELAY
 - OPTION 2: ALARM BELL, SILENCING SWITCH, & SILENCING RELAY CAN BE USED WITH OPTION 1 WHEN SPECIFIED ON THE WORK ORDER. IGNORE OPTION 1 IF IT IS NOT SPECIFIED.
 - FOR MODBUS BUILD ONLY (PN ECOS-THB or ECOS-THB1)
 - REPLACE STANDARD RWF40.00197 W/ MODBUS CAPABLE RWF40.002897
 - INSTALL WIRES ON TERMINALS CB, CG, CA OF RWF40.002897 AS SHOWN
 - INSTALL JUMPER BETWEEN TERMINAL 6 AND 14 IF CAD END SWITCH IS NOT USED

(BY OTHERS) CUSTOMER GENERAL ALARM

(BY OTHERS) BOILER STATUS

SHIELD

(INDOOR)EVA ONLY

(OUTDOOR)EVO ONLY

OPTIONAL

BY OTHERS