

WIRE COLORS:

- *BK = BLACK, 12 AWG (MIN), 105°C
- *WE = WHITE, 12 AWG (MIN), 105°C
- *GN = GREEN, 12 AWG (MIN), 105°C
- BE = BLUE, 18 AWG (MIN), 105°C
- BK = BLACK, 18 AWG (MIN), 105°C
- BN = BROWN, 18 AWG (MIN), 105°C
- GN = GREEN, 18 AWG (MIN), 105°C
- OE = ORANGE, 18 AWG (MIN), 105°C
- PK = PINK, 18 AWG (MIN), 105°C
- RD = RED, 18 AWG (MIN), 105°C
- VT = VIOLET, 18 AWG (MIN), 105°C
- WE = WHITE, 18 AWG (MIN), 105°C
- YW = YELLOW, 18 AWG (MIN), 105°C
- ~CL = SHIELDED CLEAR
- ~WE = SHIELDED WHITE
- ~BK = SHIELDED BLACK
- ~RD = SHIELDED RED
- ^^GN = GREEN, 18 AWG (MIN), 200°C
- ^^WE = WHITE, 18 AWG (MIN), 200°C

RELAY/SWITCH TERMINALS:

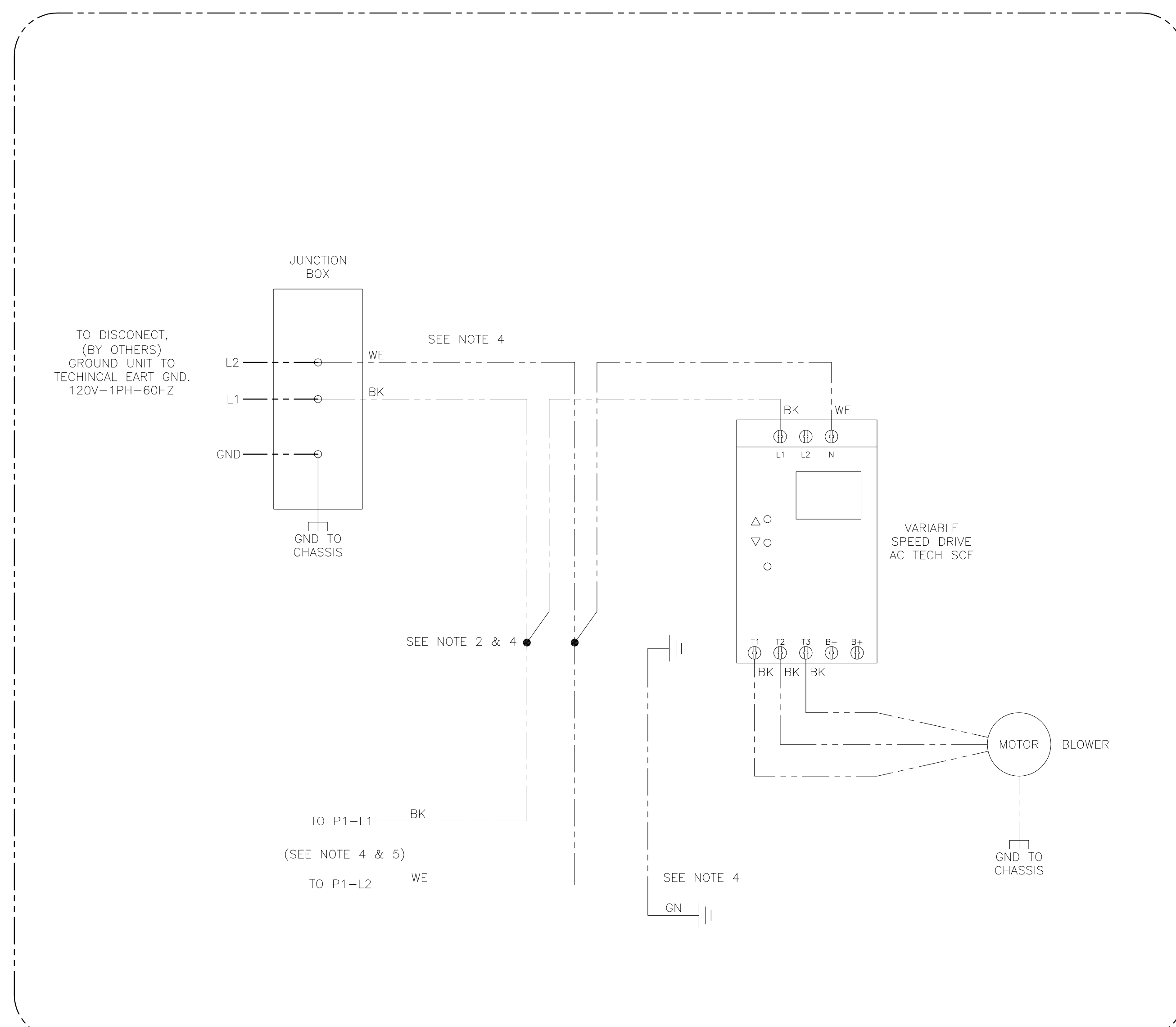
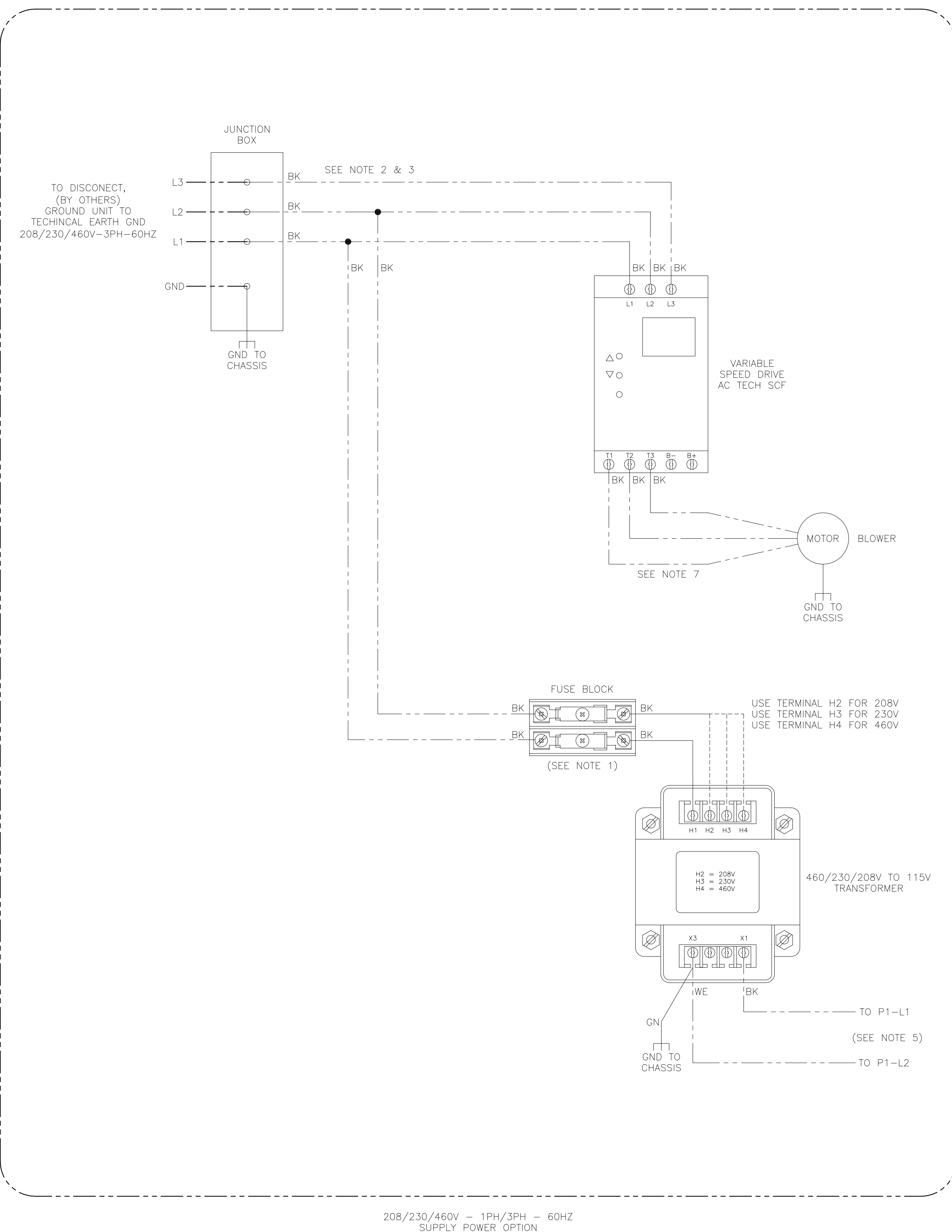
- C = COMMON
- NC = NORM. CLOSED
- NO = NORM. OPEN

WIRE TYPES:

- FACTORY WIRING, LINE VOLTAGE
- - - FACTORY WIRING, LOW VOLTAGE
- o- FACTORY WIRING, SPECIAL IGNITER, NOT IN HARNESS
- - - OPTIONAL WIRING, HIGH VOLTAGE
- - - OPTIONAL WIRING, LINE VOLTAGE
- - - OPTIONAL WIRING, LOW VOLTAGE
- x- FACTORY WIRING, LINE VOLTAGE, NOT IN HARNESS
- x- FACTORY WIRING, LOW VOLTAGE, NOT IN HARNESS
- - - FIELD WIRING, LOW VOLTAGE
- o- FIELD WIRING, LINE VOLTAGE

- NOTES:**
- IF THE P.O.C. OPTION IS NOT USED, JUMPER TERMINAL 4 TO TERMINAL 20 ON THE FLAME SAFEGUARD SUBBASE.
 - IF THE LFP OPTION IS NOT USED, JUMPER TERMINAL 5 TO TERMINAL 18 ON THE FLAME SAFEGUARD SUBBASE.
 - IF THE REMOTE ON/OFF (ENABLE/DISABLE) SWITCH IS NOT ORDERED, JUMPER TERMINAL RD TO TERMINAL C ON THE TSBC CONTROLLER. WHEN IT IS ORDERED, THE SWITCH IS FACTORY SUPPLIED AND THE CONTACTS ARE FIELD SUPPLIED.
 - ALL FACTORY WIRING THAT IS NOT INCLUDED IN THE HARNESS SHALL BE LABELED WITH THE TERMINATING CONNECTOR TERMINAL MARKING.
 - THE VALID INPUT SIGNAL RANGE FOR TERMINALS (C+,C-) IS 1-9VDC. A SIGNAL ABOVE OR BELOW THIS RANGE IS RECOGNIZED AS A 'SOFT' ALARM. AS A RESULT, THE CONTROL FUNCTION IS IGNORED.
 - SEE DWG 34-1136-D FOR SUPPLY PDWER WIRING.
 - USE BLUE FEMALE FLAG DISCONNECT P/N 103833-01 FOR CONNECTION TO TERMINAL #10 ON TIMER AND ROUT WIRE TO AVOID CONTACT WITH RESISTOR.

REV: F	EN: 34-1084-9299	DATE: 10/2/14	DWN: CJW	ENG: MKU	APPD:	APPD:
LWCO WAS UPDATED						
REFERENCE ASME Y14.5M-1994 FOR GEOMETRIC TOLERANCES. ALL DIMENSIONS IN INCHES. DRAWING NOT TO BE SCALED. NON-BASIC DIMENSIONAL AND ANGULAR TOLERANCES UNLESS OTHERWISE NOTED: DECIMALS: X.X - ±0.1, X.XX - ±0.03, X.XXX - ±0.005. FRACTIONAL: ±1/32. ANGULAR: ±1°						
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FIRST USE EVS-2000S/3000	MATERIAL					
SUPERCEDES	TITLE					
PROPERTY OF Thermal Solutions Products LLC LANCASTER, PA 17604-3244			34-1144-D SCHEMATIC WIRING CONTROL CIRCUIT W/ P.O.C. & LFP RM7840L-1075 PROGRAMMER CONTROL			
DRAWING NUMBER 34-1179-D	SCALE NONE	DWG SIZE D	SHEET 1 OF 1			



NOTES:

- UL CLASS "CC" CARTRIDGE FUSE TIME DELAY, 600V AC, 200K I.R., 3 AMP.
- USE SPRING CAGE CONNECTORS (PN 81368915) FOR WIRE JUNCTIONS.
- IF SINGLE PHASE ELECTRICAL INPUT IS USED, L3 IF NOT USED
- FOR 120V-1PH ONLY:
 - REMOVE FORKED CONNECTOR FROM BK WIRE LABELED L1-P1/115V XFMR X1 AND COMBINE INTO CONNECTOR AS SHOWN.
 - CLIP AND REMOVE WE WIRE LABELED L2-P1/115V XFMR X3 FROM FORKED CONNECTOR AND COMBINE INTO CONNECTOR AS SHOWN.
 - SECURE FORKED END AND RING TERMINAL END OF GN WIRE LABELED 115V XFMR GND/X3 TO THE CONTROL PANEL ASSEMBLY.
- FOR CONTROL CIRCUIT WIRING, USE THE FOLLOWING DWGS:

SCHMATIC:	
34-1134-D STANDARD	} EVS-500/2000
34-1148-D P.O.C. OPTION	
34-1178-D STANDARD	} EVS-2000S/3000
34-1179-D P.O.C. OPTION	
LADDER:	
34-1135-C STANDARD	} EVS-500/2000
34-1147-C P.O.C. OPTION	
34-1180-C STANDARD	} EVS-2000S/3000
34-1181-C P.O.C. OPTION	
- ALL WIRING SHALL BE LABELED WITH THE TERMINATING CONNECTOR TERMINAL MARKING.
- FOR 3 PHASE INPUT, THE LEAD WIRES MUST BE REVERSED AS SHOWN BELOW TO GET PROPER MOTOR ROTATION
 - >L1 TO T2
 - >L2 TO T1
 - >L3 TO T3

WIRING LEGEND

- FACTORY WIRING, 12 AWG, 600V, 105°C
- FACTORY WIRING, 18 AWG, 600V, 105°C

REV: H	EN: 34-1112-9677	DATE: 02/26/15	DWN: CJW	ENG: MKU	APPD: APPD:
DESCRIPTION: ADDED NOTE 7					
REFERENCE ASME Y14.5M-1994 FOR GEOMETRIC TOLERANCES. ALL DIMENSIONS IN INCHES. DRAWING NOT TO BE SCALED. NON-BASIC DIMENSIONAL AND ANGULAR TOLERANCES UNLESS OTHERWISE NOTED: DECIMALS: X.X - ±0.1, X.XX - ±0.03, X.XXX - ±0.005. FRACTIONAL: ±1/32. ANGULAR: ±1°					
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FIRST USE EVS-500/3000	MATERIAL				
PROPERTY OF Thermal Solutions Products LLC LANCASTER, PA 17604-3244			TITLE SCHEMATIC WIRING SUPPLY POWER		
DRAWING NUMBER 34-1136-D	SCALE NONE	DWG SIZE D	SHEET 1 OF 1		