TITLE:	PCN:	DATE:	DRAWING NO:	REV.
W/W 036,060 208-230/60/3, 460/60/3, 380-420/50/3, 575/60/3 CXM COM.	14-0064	02/07/14	96B0223N03	A

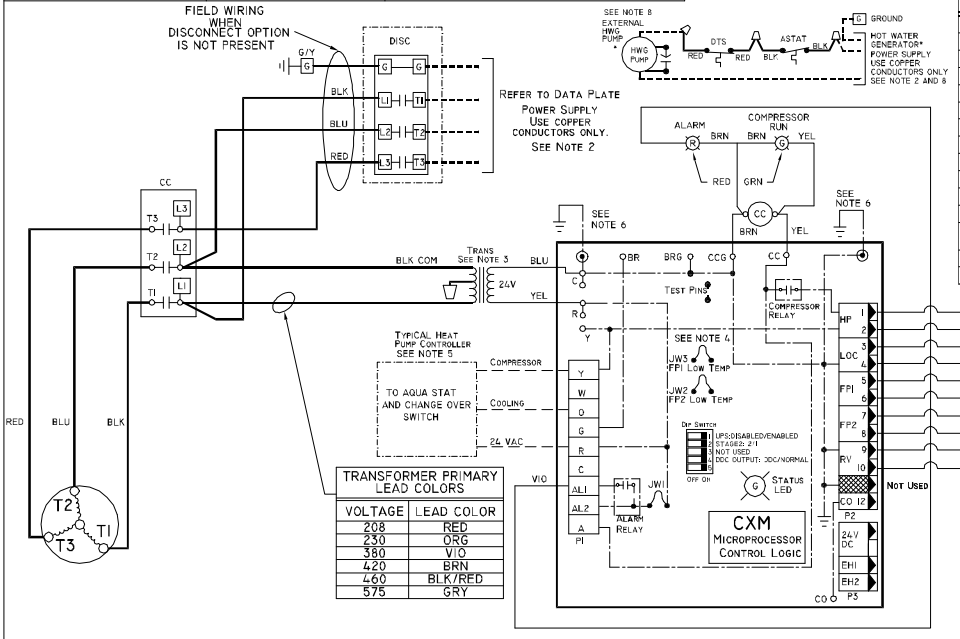
LEGEND

- FACTORY LINE VOLT WIRING
- FACTORY LOW VOLT WIRING
- FIELD LINE VOLT WIRING
- FIELD LOW VOLT WIRING
- PRINTED CIRCUIT TRACE
- OPTIONAL WIRING
- RELAY / CONTACTOR COIL
- THERMISTOR
- CONDENSATE PAN
- CIRCUIT BREAKER
- LED
- SPLICE CAP
- CAPACITOR
- SOLENOID COIL
- RELAY CONTACTS - N.O.
- TEMPERATURE SWITCH
- SWITCH- HIGH PRESSURE
- SWITCH- LOSS OF CHARGE
- GROUND
- WIRE NUT

AL	ALARM RELAY CONTACTS
ASTAT	AQUASTAT
CAP	COMPRESSOR CAPACITOR
CB	CIRCUIT BREAKER
CC	COMPRESSOR CONTACTOR
DISC	UNIT DISCONNECT
FPI	SENSOR, SOURCE WATER LOW TEMP PROTECTION
FP2	SENSOR, LOAD WATER LOW TEMP PROTECTION
HP	HIGH PRESSURE SWITCH
HWTS	HIGH (LEAVING) WATER TEMP. SWITCH
LOC	LOSS OF CHARGE PRESSURE SWITCH
MV	MOTORIZED VALVE (SOURCE WATER)
PI	FIELD WIRING TERMINAL BLOCK
PB	POWER TERMINAL BLOCK
PDB	POWER DISTRIBUTION BLOCK
RVS	REVERSING VALVE SOLENOID
TRANS	TRANSFORMER
*	OPTIONAL WIRING

NOTES

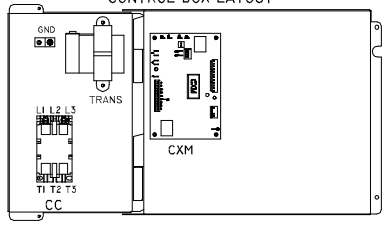
1. COMPRESSOR THERMALLY PROTECTED INTERNALLY.
2. ALL WIRING TO THE UNIT MUST COMPLY WITH NEC & LOCAL CODES.
3. TRANSFORMER IS WIRED TO 460V (BLK/RED) LEAD FOR 460/60/3 UNITS, 575 (GRY) LEAD TOR 575/60/3, OR 380V (VIO) LEAD FOR 380/50/3. FOR 420/50/3 SWITCH VIO & BRN LEADS AT LI AND INSULATE VIO LEAD. FOR 208V USE RED LEADS. FOR 230V USE ORG LEADS. INSULATE UNUSED LEADS. TRANSFORMER IS ENERGY LIMITING OR MAY HAVE CIRCUIT BREAKER.
4. FPI THERMISTER PROVIDES FREEZE PROTECTION FOR SOURCE WATER. WHEN USING ANTI-FREEZE SOLUTIONS, CUT JW3 JUMPER.
5. CHECK INSTALLATION WIRING INFORMATION FOR CONTROLLER HOOKUP REFER TO CONTROL INSTALLATION INSTRUCTIONS FOR WIRING TO THE UNIT. CONTROL WIRING MUST BE "CLASS I" AND VOLTAGE RATING EQUAL TO OR GREATER THAN UNIT SUPPLY VOLTAGE.
6. TRANSFORMER SECONDARY GROUND VIA CXM BOARD STANDOFFS & SCREWS TO CONTROL BOX. (GROUND AVAILABLE FROM TOP TWO STANDOFFS AS SHOWN.)
8. AQUA STAT IS SUPPLIED WITH UNIT AND MUST BE WIRED IN SERIES WITH THE HOT LEG TO THE PUMP. AQUA STAT IS RATED FOR VOLTAGE UP TO 277V.



TRANSFORMER PRIMARY LEAD COLORS

VOLTAGE	LEAD COLOR
208	RED
230	ORG
380	VIO
420	BRN
460	BLK/RED
575	GRY

CXM CONTROLLER FAULT CODES

DESCRIPTION OF OPERATION	LED	ALARM RELAY
NORMAL MODE	ON	OPEN
NORMAL MODE W/ UPS WARNING	ON	CYCLE (CLOSED 5 SEC. OPEN 25 SEC.)
CXM IS NON-FUNCTIONAL	OFF	OPEN
FAULT RETRY	SLOW FLASH	OPEN
LOCKOUT	FAST FLASH	CLOSED
OVER/UNDER VOLTAGE SHUTDOWN	SLOW FLASH	OPEN (CLOSED AFTER 15 MIN.)
TEST MODE-NO FAULT IN MEMORY	FLASHING CODE 1	CYCLING CODE 1
TEST MODE-HP FAULT IN MEMORY	FLASHING CODE 2	CYCLING CODE 2
TEST MODE-LP FAULT IN MEMORY	FLASHING CODE 3	CYCLING CODE 3
TEST MODE-FPI FAULT IN MEMORY	FLASHING CODE 4	CYCLING CODE 4
TEST MODE FP2-FAULT IN MEMORY	FLASHING CODE 5	CYCLING CODE 5
TEST MODE-CO FAULT IN MEMORY	FLASHING CODE 6	CYCLING CODE 6
TEST MODE-OVER/UNDER SHUTDOWN IN MEMORY	FLASHING CODE 7	CYCLING CODE 7
TEST MODE-UPS IN MEMORY	FLASHING CODE 8	CYCLING CODE 8
SWAPPED FPI/FP2 LOCKOUT	FLASHING CODE 9	CYCLING CODE 9

CONTROL BOX LAYOUT