



MOTOR CONNECTIONS SHOWN ARE FOR GENERAL INFORMATION ONLY. REFER TO MOTOR MANUFACTURER FOR ACTUAL MOTOR CONNECTIONS.

QUENCHARC SEE NOTE 12

**16 LED INDICATOR PANEL**

<input type="radio"/> POWER AVAILABLE	<input type="radio"/> FAIL TO START
<input type="radio"/> LOCKOUT	<input type="radio"/> PHASE REVERSAL
<input type="radio"/> ACCELERATE	<input type="radio"/> RUN TIMER
<input type="radio"/> LOW SUCTION	<input type="radio"/> PUMP START DELAY ON
<input type="radio"/> LOCKED ROTOR	<input type="radio"/> OVERLOAD
<input type="radio"/> PRESSURE SWITCH START	<input type="radio"/> PUMP RUNNING
<input type="radio"/> SHORTED SCR	<input type="radio"/> OVER TEMP SCR

**PROGRAMMING KEYPAD PANEL**

<input type="button"/> LOCAL START	<input type="button"/> SOFT STOP	<input type="button"/> LAMP TEST	<input type="button"/> SILENCE
<input type="button"/> STOP			

**SPC PROGRAMMED MICRO CONTROLLER**  
90215701

**ICD INTERFACE BOARD (STANDARD)**  
90220701

SYMBOL	DESCRIPTION
1-6CT	CURRENT TRANSFORMER
CB	CIRCUIT BREAKER
CRR	MOTOR CONTACTOR RELAY
CRS	PUMP START RELAY
D1,D2	FLY-BACK DIODE
EMC-1	EMERGENCY MANUAL CONTACT
ISO	ISOLATING DISCONNECT NORMAL
M1	CONTACTOR
M1a,b	AUXILIARY CONTACTS
PX	PRESSURE TRANSDUCER
S²MC	SOLID-STATE SOFT START CONTROL
SR	STOP RELAY 12VDC
SS	SURGE SUPPRESSOR
ST	SHUNT TRIP
TB1-6	TERMINAL PLUG, BOARD MOUNTED
TB1,2,3,9	TERMINAL BLOCKS
XFMR1	CONTROL TRANSFORMER
XFMR2	THREE PHASE TRANSFORMER

- NOTES:**
1. SCHEMATIC SHOWN IN A "NO POWER" STATE. NORMAL WATER PRESSURE APPLIED.
  2. CUSTOMER CONNECTIONS ARE SHOWN BY MEANS OF DASHED LINES.
  3. RELAY OUTPUT CONTACTS ARE RATED 10 AMPS AT 120 VAC.
  4. Ma CONTACTS CLOSE WHEN M IS CLOSED. Mb CONTACTS CLOSE WHEN M IS OPEN.
  5. MINIMUM OF 1/2" CLEARANCE MUST BE MAINTAINED BETWEEN PUMP ROOM FLOOR AND CURRENT CARRYING OR LIVE PARTS.
  6. IF PHASE REVERSAL FAULT OCCURS WHEN PUMP ROTATION IS CORRECT, REVERSE WIRE NOS. 113 AND 114 ON THE J2 CONNECTOR LOCATED AT THE TOP OF SPC (FRONT) PC BOARD.
  7. EMC-1 CONTACT IS A NORMALLY CLOSED CONTACT. HELD OPEN WHEN OFF.
  8. CONTROLLER SUITABLE FOR USE AS SERVICE EQUIPMENT.
  9. SR RELAY IS NORMALLY ENERGIZED, AND DROPS OUT ON STOP COMMAND.
  - \*10. NOT USED UNLESS AUDIBLE ALARM IS SUPPLIED.
  11. SHOWN FOR REFERENCE ONLY. USED WHEN SUPPLIED.
  12. ARC QUENCHER IS CONNECTED ACROSS COIL M1.

**REFERENCE DRAWINGS:**  
FOR FIRE PUMP CONTROLLER WIRING DIAGRAM, SEE DWG. C-90331-108.  
FOR FIRE PUMP CONTROLLER FIELD CONNECTIONS, SEE DWG. 11CF0011.

● -CONNECT PRIMARY TAP PER LINE VOLTAGE

STANDARD LXI-1100 SCHEMATIC DIAGRAM SOLID STATE SOFT START/STOP FULL SERVICE FIRE PUMP CONTROLLER	DATE 08/28/02	DR. TR	CK. DAMA APPR.
M/L NO.	MOTION:	REF.	
REV. NO.	DESCRIPTION	DATE	BY
1	DESCRIPTION		
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Hubbell Industrial Controls, Inc.  
4301 Chayenne Dr., Archdale, N.C. 27283

DATE 08/28/02  
DR. TR  
CK. DAMA APPR.  
CADD NO. 11CS0011  
DATE 08/28/02  
DR. TR  
CK. DAMA APPR.  
REV. NO. 1 OF 1  
C-11CS0011