



C-24CS0011

STANDARD LXI-2400 SCHEMATIC DIAGRAM
PRIMARY START
FULL SERVICE FPC/ATS COMBO

DATE: 09/14/02 DR: TR
DATE: 03/14/03 TR: [REDACTED]
DATE: 10/26/02 TR: [REDACTED]

CK.DAMA (APPR.)
DRG. NO. C-24CS0011
1 OF 1
4301 Chayenne Dr., Archdale, N.C. 27283

Rev.	DATE	SY	BY	DESCRIPTION
E	11/10/05	DAMA	TR	UPDATING DRAWING PER ESR-1483-00833.
D	10/22/04	TR	TR	UPDATED TB2 CONNECTIONS.
C	9-5-03	PS	TR	REVISED NOTE 6
B	03/14/03	TR	TR	ADDED "LOW SUCTION" LED INDICATOR. PARTS REWORKED.
A	10/26/02	TR	TR	J108-4 CONNECTION.

- NOTES:**
- SCHEMATIC SHOWN IN A "NO POWER" STATE, NORMAL WATER PRESSURE APPLIED.
 - CUSTOMER CONNECTIONS ARE SHOWN BY MEANS OF DASHED LINES.
 - RELAY OUTPUT CONTACTS ARE RATED TO AMPS AT 120 VAC.
 - NO CONTACTS CLOSE WHEN M IS CLOSED, MD CONTACTS CLOSE WHEN M IS OPEN.
 - MINIMUM OF 12" CLEARANCE MUST BE MAINTAINED BETWEEN PUMP ROOM FLOOR AND CURRENT CARRYING OR LINE PARTS.
 - 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.
 - EMC-1 IS NORMALLY CLOSE, HELD OPEN WHEN QEE.

- CONTROLLER SUITABLE FOR USE AS SERVICE EQUIPMENT.
 - FOR ATS SCHEMATIC SEE DWG. NO. 45CS0011.
 - NOT USED UNLESS AUDIBLE ALARM IS SUPPLIED.
 - SHOWN FOR REFERENCE ONLY, USED WHEN SUPPLIED.
 - ARC QUENCHERS ARE CONNECTED ACROSS COILS M1 AND M2.
 - CT ASSEMBLY MOUNTED ON FIRE PUMP TRANSFER SWITCH.
- REFERENCE DRAWINGS:
FOR AUTOMATIC TRANSFER SWITCH SCHEMATIC DIAGRAM, SEE DWG. 45CS0011.
FOR FIRE PUMP CONTROLLER FIELD CONNECTIONS, SEE DWG. 24CF0011.

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,M2	CONTACTORS
M1a,b	AUXILIARY CONTACTS
PX	PRESSURE TRANSDUCER
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