



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



SYMBOL	DESCRIPTION
1CT,2CT,3CT	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,S1,S2	CONTACTORS
M2a,M2b,S1b,S2b	AUXILIARY CONTACTS
PX	PRESSURE TRANSDUCER
SS	SURGE SUPPRESSOR
ST	SHUNT TRIP
TB1-6	TERMINAL PLUG, BOARD MOUNTED
TB7	TERMINAL BLOCK
XFMR3	CONTROL TRANSFORMER

- 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 8 AMPS AT 250 VAC.
  - MINIMUM OF 12" CLEARANCE MUST BE MAINTAINED BETWEEN PUMP ROOM FLOOR AND CURRENT CARRYING OR LIVE PARTS.

- EMC-1 IS NORMALLY CLOSED, HELD OPEN WHEN OFF.
  - CONTROLLER SUITABLE FOR USE AS SERVICE EQUIPMENT.
  - \*7. NOT USED UNLESS AUDIBLE ALARM IS SUPPLIED.
  8. SHOWN FOR REFERENCE ONLY, USED WHEN SUPPLIED.
- - CONNECT PRIMARY TAP PER LINE VOLTAGE

**REFERENCE DRAWING:**  
 FOR FIRE PUMP CONTROLLER FIELD CONNECTIONS, SEE DWG. NO. 18DF0011.  
 FOR FIRE PUMP CONTROLLER WIRING DIAGRAM, SEE DWG. NO. 18DW0011.

M/L NO.	
MOTION:	
REF:	
CADD NO.	18DS0011
DATE	12/04/03
DR.	TR
CK.	DAMA APPR.

Rev.	DATE	SYS	BY	DESCRIPTION
K				
J				
H				
G				
F	12/20/06			DAMA REMOVED CONN TO CRR-1, CRR-7

C-18DS0011  
 STANDARD LXI-1800 SCHEMATIC DIAGRAM  
 WYE-DELTA CLOSED TRANSITION STARTER  
 FULL SERVICE FIRE PUMP CONTROLLER  
 DRG. NO. C-18DS0011  
 1 OF 1  
 Habbell Industrial Controls, Inc.  
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