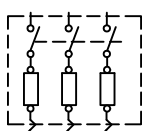




460V/3 $\phi$ /60 Hz

L1 L2 L3

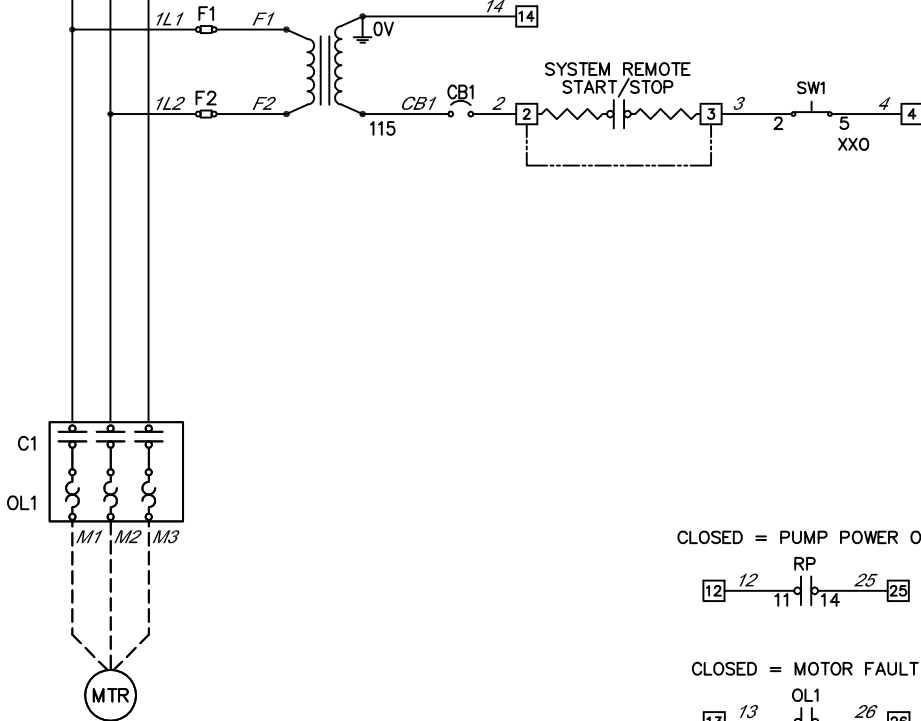


MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS (MAXIMUM OF 10A DUAL TIME DELAY FUSE OR 14A INVERSE TIME BREAKER RECOMMENDED)

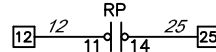
| 150VA TRANSFORMER |      |          |
|-------------------|------|----------|
| Voltage           | Fuse | Location |
| 460               | 1A   | H1-H4    |
| 230               | 2A   | H2-H4    |
| 208               | 2A   | H3-H4    |

LOCKABLE NON-FUSED DISCONNECT SWITCH (RATED @ 16 AMPS)

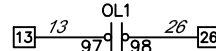
ALL PRIMARY FUSING TO BE LITTELFUSE CLASS CC, CCMR OR EQUIV.



CLOSED = PUMP POWER ON



CLOSED = MOTOR FAULT



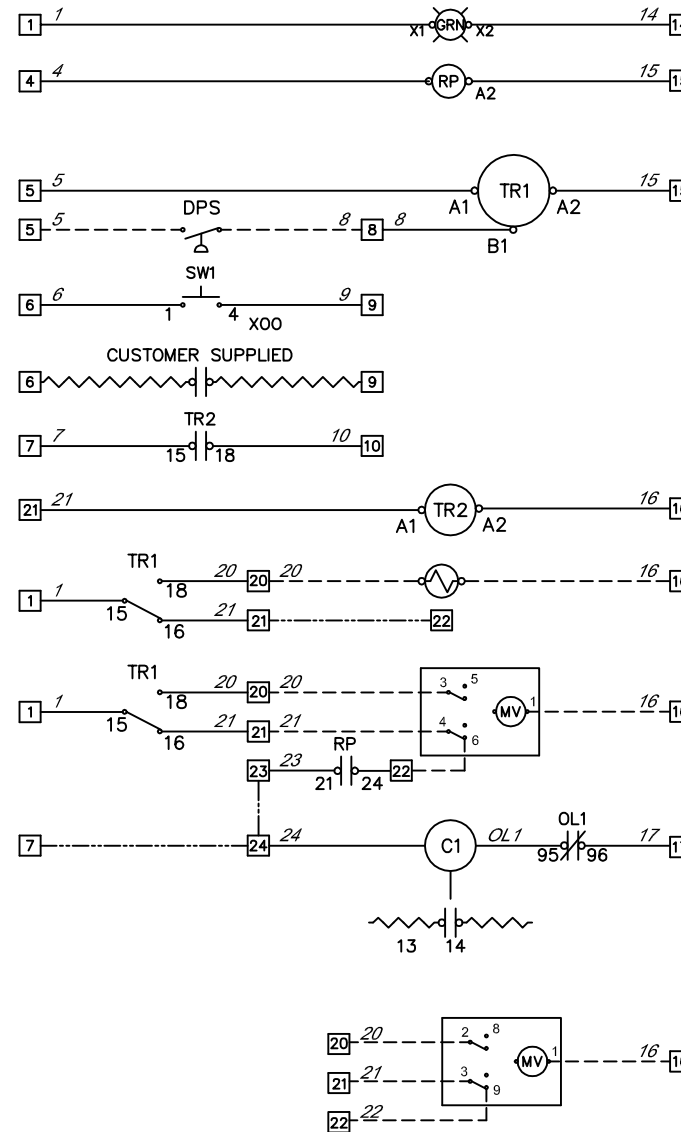
MAX. VOLTAGE: 600V  
MAX. AMPERES: 5A

|       |              |                                 |
|-------|--------------|---------------------------------|
| POWER | POWER        | 460V/3~ /60HZ                   |
|       | TOTAL FLA    | 5.33 AMPS                       |
|       | SCCR         | 5 kA RMS SYMMETRICAL, 600V MAX. |
|       | LARGEST MTR. | 3 HP                            |

|           |           |                   |
|-----------|-----------|-------------------|
| ENCLOSURE | STANDARD  | UL 508A           |
|           | SIZE      | 12"L x 10"W x 6"D |
|           | UL RATING | TYPE 4X           |
|           | MATERIAL  | POLYCARBONATE     |

- GROUND PER 2011 NATIONAL ELECTRICAL CODE ARTICLE 250.
- PANEL WIRING:  
SHOP/FIELD WIRING: \_\_\_\_\_  
CUSTOMER'S WIRING: ~~~~~  
FACTORY INSTALLED JUMPER: - - - - -
- USE COPPER WIRE RATED 60°C MINIMUM UNLESS OTHERWISE SPECIFIED.
- DISCONNECT SWITCH TORQUE REQUIREMENTS: 35 LB IN. CONTACTOR/OVERLOAD TORQUE REQUIREMENTS: 7-10 LB IN.
- SIZE THE MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION PER 2011 NATIONAL ELECTRIC CODE ARTICLE 430.

- CONDUIT HUBS AND FITTINGS MUST HAVE THE SAME UL ENVIRONMENTAL RATING AS THE CONTROL PANEL ENCLOSURE.
- WIRE COLORS ARE AS FOLLOWS-LINE=BLACK, AC=RED, NEUTRAL=WHITE, DC+=BLUE, DC-=WHITE/BLUE, GROUND=GREEN/YELLOW, EXTERNAL SOURCE=YELLOW.
- SET MOTOR OVERLOADS ACCORDING FLA ON MOTOR DATA PLATE
- ALL MOTOR WIRING TO BE AT LEAST CU, 75° RATED.
- TB1= [5]      TBA= (1)      TBB= (1)

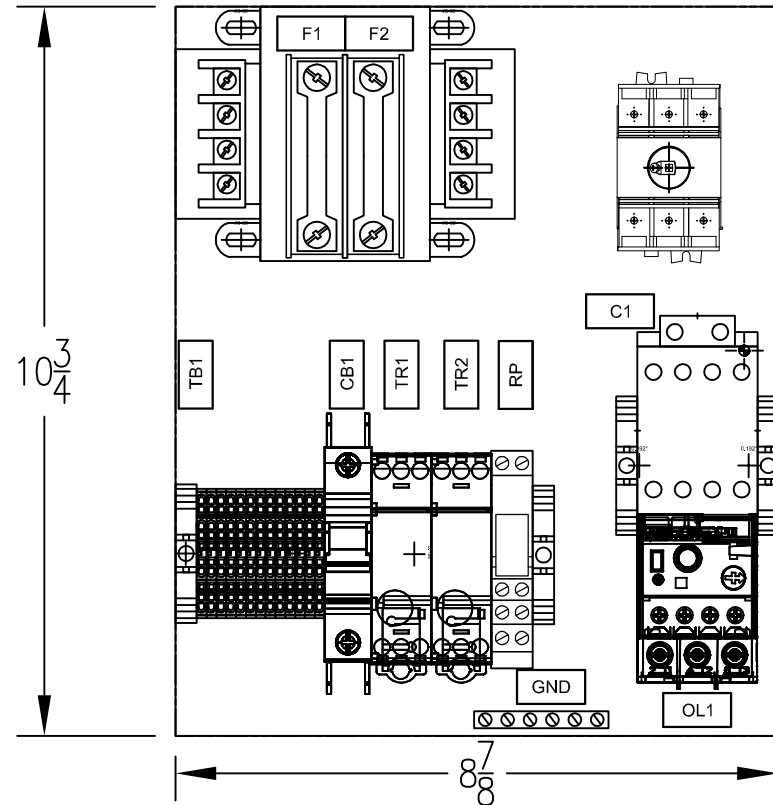
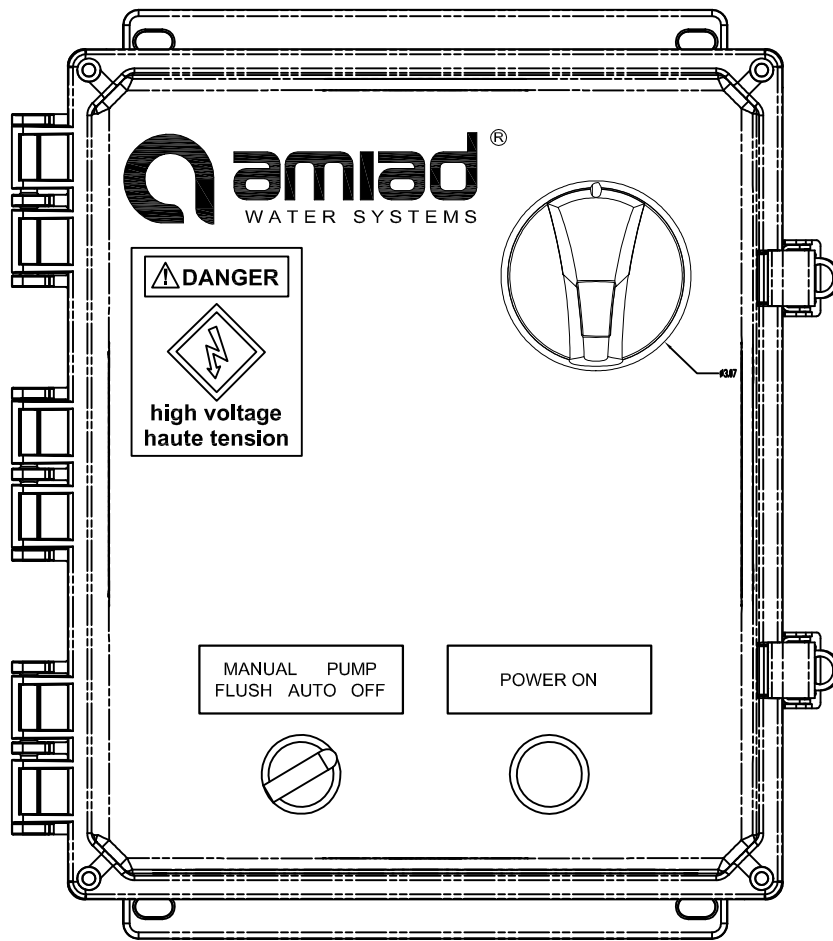


- POWER ON LIGHT
- PUMP POWER ON
- FLUSH DURATION (2 MIN)
- DIFFERENTIAL PRESSURE
- LOCAL FLUSH START
- REMOTE FLUSH START
- CYCLE TIMER
- CYCLE TIMER (0.05S-60HRS)
- FLUSH VALVE OPTIONS (SHOP TO ADD JUMPER FROM TB21 TO TB22 IF SOLENOID FLUSH VALVE IS USED)
- SYSTEM PUMP (REMOVE JUMPER FROM TB7 TO TB24 FOR EXTERNAL SOURCE FLUSH; REMOVE MECHANICAL JUMPER FROM TB23 TO TB24 FOR SYSTEM FLUSH)

OPTIONAL BRAY ACTUATOR

**Amiad**® WATER SYSTEMS 120-J TALBERT ROAD MOORESVILLE, NC 28117 USA (704) 662-3133 FAX (704) 662-3155

|  |                              |
|--|------------------------------|
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| 5 10/10/2017 REMOVE COUNTER  | RAM DRAWING DATE: 05/09/2014 |
| 4 07/25/2016 ADD COUNTER, FIX PUMP "SOURCE" POWER  | RAM                          |
| 3 02/25/2016 ADD BRAY ACTUATOR OPTION  | RAM SCALE: 1" = 1"           |
| 2 07/09/2014 MOTOR CONTROL   | CEH SHT. 1 of 2              |
| 1 06/03/2014 WIRE LABELS   | JTE DRAWN BY: JTE            |
| NO. DATE NOTES   | BY CHKD BY: SAL              |
| GENERAL REVISIONS  |                              |
| APP. BY: ---   |                              |
| DRAWING TITLE: 1F 460V/3~ UNI/SOL PEP 1-3.19A WIRING DIAGRAM   |                              |
| DRAWING NUMBER: 720102-002073-ELC REV. NO. 5   |                              |
| CATALOG NUMBER: 720102-002073  |                              |
| GENERAL TOLERANCES (EXCEPT AS NOTED) ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"  |                              |



UPPER LEVEL

|   |   |   |   |   |   |   |   |   |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|

LOWER LEVEL

|    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|

**NOTE**

- ALL HARDWARE WILL INCLUDE ONE MECHANICAL LOCK AND A FLAT WASHER.
- THE ONLY EXCEPTION IS IF THE MECHANICAL SCREW IS A SELF-THREADING SCREW.
- IF BOLT/SCREW NEEDS TO GO THROUGH A THROUGH-HOLE, THE BOLT/SCREW WILL NEED A FLAT WASHER ON BOTH SIDES OF THE MATERIAL AND MECHANICAL LOCK BEFORE THE NUT.
- ALL HARDWARE HAS TO THREAD AT LEAST TWO COMPLETE TURNS THROUGH THE NUT/THREADED HOLE
- IF VISIBLE, NO HARDWARE WILL EXTEND PAST THREE THREADS OUT OF THE NUT/THREADED HOLE.
- BACKPLANE AND DEAD FRONT IF REQUIRED ARE TO BE GROUNDED ACCORDING NEC 70E.
- UNLESS OTHERWISE NOTED, ALL CONTACTORS WILL BE AB 100-C, OVERLOADS AB 193 E-1, CONTROL RELAYS AB 700-HLT, AND CIRCUIT BREAKERS AB 1489.

**amiad**® WATER SYSTEMS 120-J TALBERT ROAD  
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|                             |  |  |
|-----------------------------|--|--|
| DRAWING DATE:<br>05/09/2014 | DRAWING TITLE:<br>1F 460V/3~ UNI/SOL PEP 1-3.19A<br>WIRING DIAGRAM |  |
| SCALE: 1" = 3"              | DRAWING NUMBER:<br>720102-002073-ELC                               | REV. NO. 5   |
| SHT. 2 of 2                 | CATALOG NUMBER: 720102-002073                                      |  |
| DRAWN BY: JTE               | GENERAL TOLERANCES<br>(EXCEPT AS NOTED)                            | ANGULAR ±1°<br>FRACTIONAL ± 1/8"<br>DEC: 2PL±0.05", 3PL±0.010" |
| NO. DATE                    | NOTES  | BY   |
| GENERAL REVISIONS           |  |  |
| APP. BY: ---                | CHKD BY: ---   |  |