

NOTES

- 1) ALL DIMENSIONS GIVEN IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2) DESIGN CONDITIONS:
 MAX PRESSURE 150 PSI
 MAX TEMPERATURE 140 °F
 318 GPM @ 70' TDH
- 3) APPROXIMATE MASS: 809 LBS (DRY)

#	COMPONENT
1	NEMA 4X, UL, 460V/3PH/60Hz CONTROL PANEL
2	FILTER: 4" SAF-3000, 50 MICRON SCREEN
3	PUMP: 10HP 3600RPM, 460/3/60, 318 GPM @ 70' TDH
4	PURGE: 2" BERMAD SERIES 400
5	BASE: EPOXY COATED CARBON STEEL
6	FACE PIPE: 4" 304SS
7	SOLENOID: 24VAC ASCO RED HAT
8	DP SWITCH: MIDWEST MODEL 146
9	DRIVE MOTOR: 1/4HP BALDOR 33-1924-0422G1
10	ISOLATION VALVE: 4" BRAY S31 BUTTERFLY VALVE

Amiad WATER SYSTEMS 120-J TALBERT ROAD
 MOORESVILLE, NC 28117
 PH: (704) 662-3133 FAX: (704) 662-3155

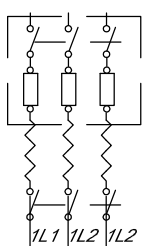
THIS DRAWING, AND THE INFORMATION CONTAINED HEREIN, IS THE PROPERTY OF AMIAD WATER SYSTEMS. ANY USE OR REPRODUCTION THEREOF WITHOUT THE WRITTEN PERMISSION OF AMIAD WATER SYSTEMS ENGINEERING DEPARTMENT IS STRICTLY PROHIBITED.

DRAWING DATE: 7/29/2016	DRAWING TITLE: FILTR SKID 4" SAF 3000 WITH PUMP AND CONTROLS
SCALE: 1:16	DRAWING NUMBER: 700301-000041
SHEET 1 OF 2	CAT NUMBER: 700301-000041 REV. NO. 0
DRAWN BY: MAV	CHECKED BY: SAL
APPROVED BY: _____	GENERAL TOLERANCES (EXCEPT AS NOTED) ANGULAR ± 1° FRACTIONAL ± 1/8" Dec: 2 PL ± 0.05", 3 PL ± 0.010"

NO.	REVISION NOTES	DATE	BY

460V/3φ/60 Hz

L1 L2 L3

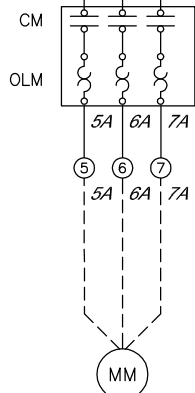
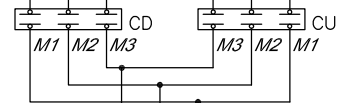
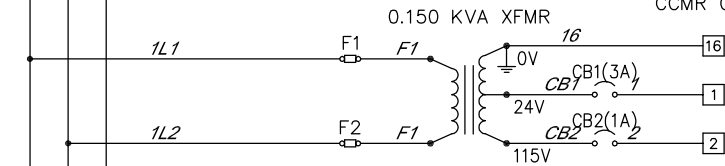


MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS (MAXIMUM OF 31A DUAL TIME DELAY FUSE OR 44A INVERSE TIME BREAKER RECOMMENDED)

LOCKABLE NON-FUSED DISCONNECT SWITCH (RATED @ 40 AMPS)

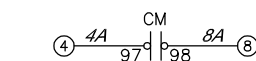
150VA TRANSFORMER	
VOLTAGE	FUSING
575	1A
460	1A
400	1A
230	2A
208	2A

ALL FUSING TO BE LITTELFUSE CL. CC CCMR OR EQUIV.

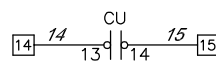


13-14
13-14
CLOSED = MOTOR ON

CLOSED = SYSTEM PUMP FAULT



CLOSED = FLUSH IN PROGRESS



CLOSED = SYSTEM OFF/FAULT



MAX. VOLTAGE: 600V
MAX. AMPERES: 1A

MAX. VOLTAGE: 600V
MAX. AMPERES: 16A

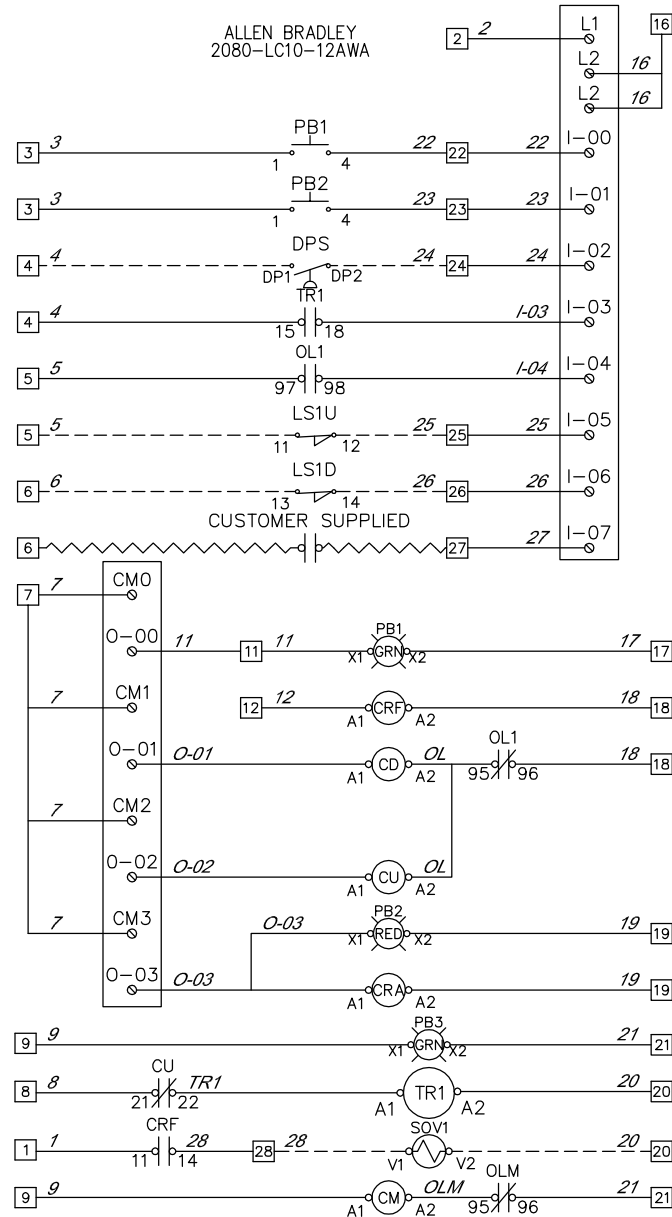
POWER	460V/3~/60HZ
TOTAL FLA	16.33 AMPS
SCCR	5 kA RMS SYMMETRICAL, 600V MAX.
LARGEST MTR.	15 HP

STANDARD	UL 508A
SIZE	16"L x 14"W x 7"D
UL RATING	TYPE 4X
MATERIAL	POLYCARBONATE

- GROUND PER 2011 NATIONAL ELECTRICAL CODE ARTICLE 250.
- PANEL WIRING: _____
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]

ALLEN BRADLEY
2080-LC10-12AWA



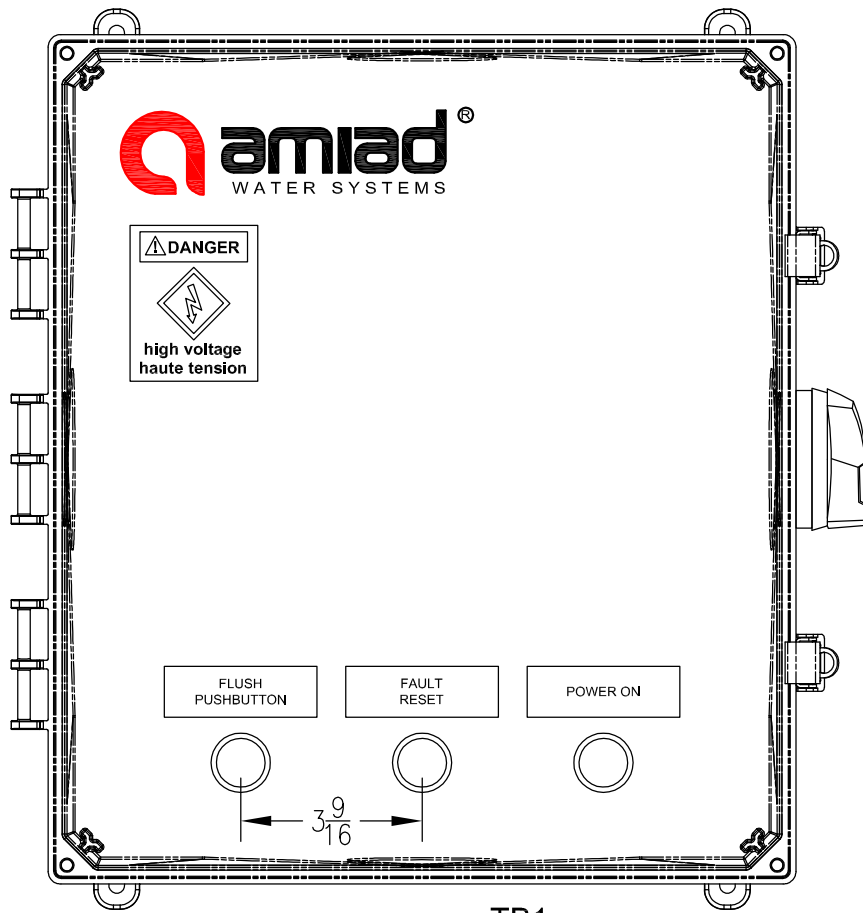
- PLC POWER ON
- FLUSH PUSHBUTTON
- FAULT RESET PUSHBUTTON
- DIFFERENTIAL PRESSURE
- FLUSH INTERVAL TIMER
- FAULT
- UP LIMIT SWITCH
- DOWN LIMIT SWITCH
- REMOTE STOP
- FLUSH PUSHBUTTON
- FLUSH VALVE CONTROL
- MOTOR DOWN
- MOTOR UP
- FAULT RESET PUSHBUTTON
- FAULT CONTROL
- POWER ON
- FLUSH INTERVAL TIMER (0.05S-60HRS)
- FLUSH VALVE
- SYSTEM PUMP

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

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF AMIAD WATER SYSTEMS. ANY USE OR REPRODUCTION THEREOF WITHOUT THE WRITTEN PERMISSION OF AMIAD WATER SYSTEMS ENGINEERING DEPARTMENT IS STRICTLY PROHIBITED.

DRAWING DATE: 07/23/2014	DRAWING TITLE: 1F 460V/3~ SOL BAS AMD 0.2-1A WIRING DIAGRAM
SCALE: 1" = 1"	DRAWING NUMBER: 720102-002168-elc
SHT. 1 of 2	REV. NO. 0
DRAWN BY: JTE	CATALOG NUMBER: 720102-002168
CHKD BY: ---	GENERAL TOLERANCES (EXCEPT AS NOTED)
APP. BY: ---	ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"

NO.	DATE	NOTES	BY
GENERAL REVISIONS			



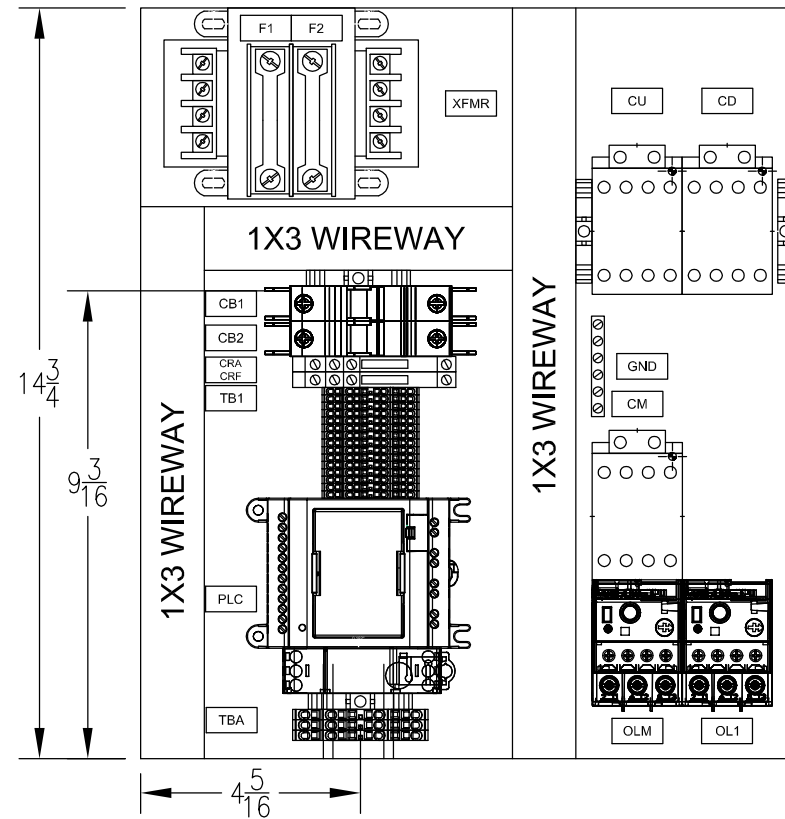
TB1

UPPER LEVEL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

LOWER LEVEL

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----



TBA

UPPER LEVEL

1	2	3	4
---	---	---	---

LOWER LEVEL

5	6	7	8
---	---	---	---

NOTE

1. ALL HARDWARE WILL INCLUDE ONE MECHANICAL LOCK AND A FLAT WASHER.
2. THE ONLY EXCEPTION IS IF THE MECHANICAL SCREW IS A SELF-THREADING SCREW.
3. 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.
4. ALL HARDWARE HAS TO THREAD AT LEAST TWO COMPLETE TURNS THROUGH THE NUT/THREADED HOLE
5. IF VISIBLE, NO HARDWARE WILL EXTEND PAST THREE THREADS OUT OF THE NUT/THREADED HOLE.
6. BACKPLANE AND DEAD FRONT IF REQUIRED ARE TO BE GROUNDED ACCORDING NEC 70E.
7. 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
MOORESVILLE, NC 28117 USA
(704) 662-3133 FAX (704) 662-3155

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF AMIAD WATER SYSTEMS. ANY USE OR REPRODUCTION THEREOF WITHOUT THE WRITTEN PERMISSION OF AMIAD WATER SYSTEMS ENGINEERING DEPARTMENT IS STRICTLY PROHIBITED.

DRAWING DATE: 07/23/2014	DRAWING TITLE: 1F 460V/3~ SOL BAS AMD 0.2-1A WIRING DIAGRAM	
SCALE: 1" = 4"	DRAWING NUMBER: 720102-002168-elc	REV. NO. 0
SHT. 2 of 2	CATALOG NUMBER: 720102-002168	
DRAWN BY: JTE	GENERAL TOLERANCES (EXCEPT AS NOTED)	ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"
NO.	DATE	NOTES
GENERAL REVISIONS		
CHKD BY: ---	APP. BY: ---	